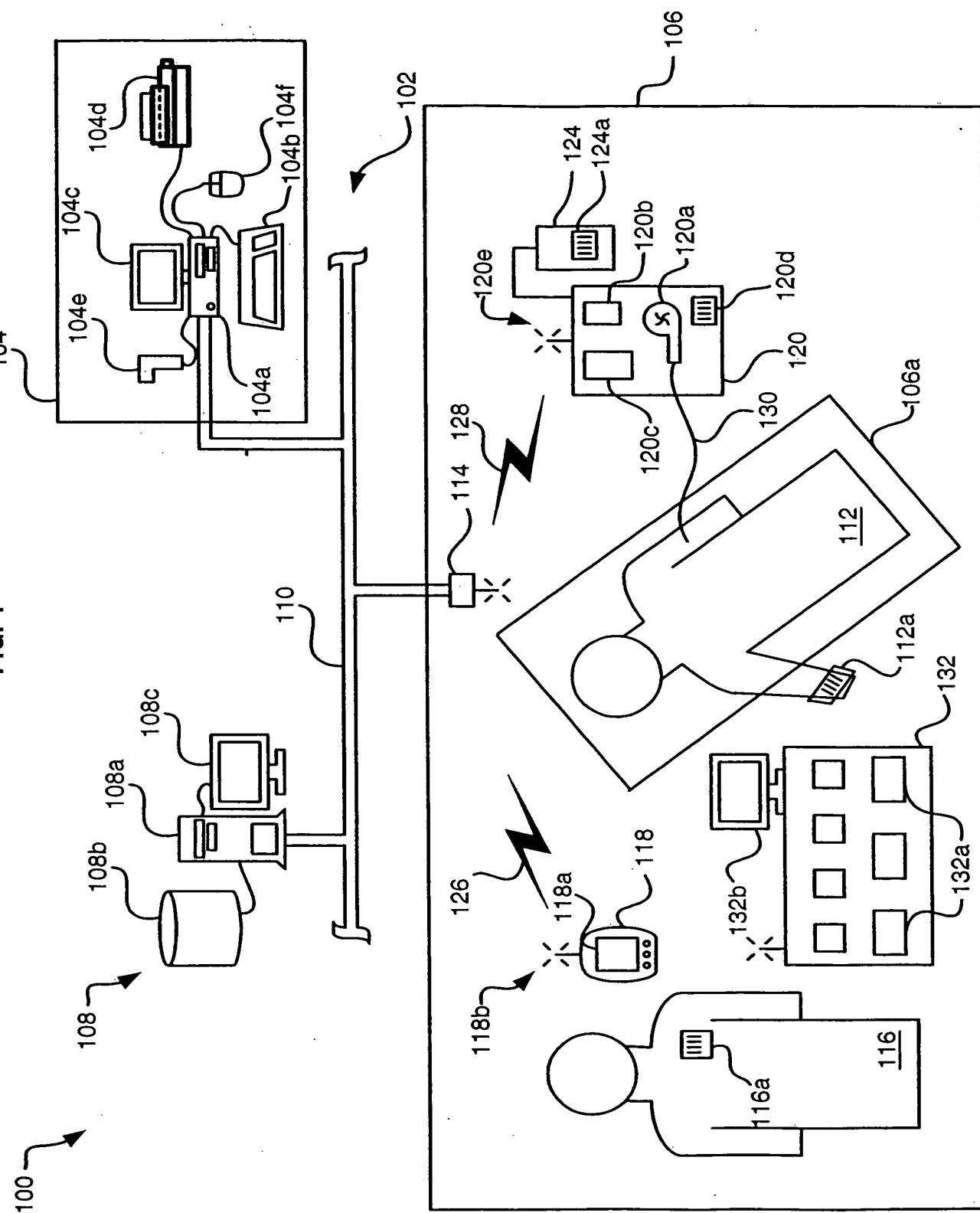
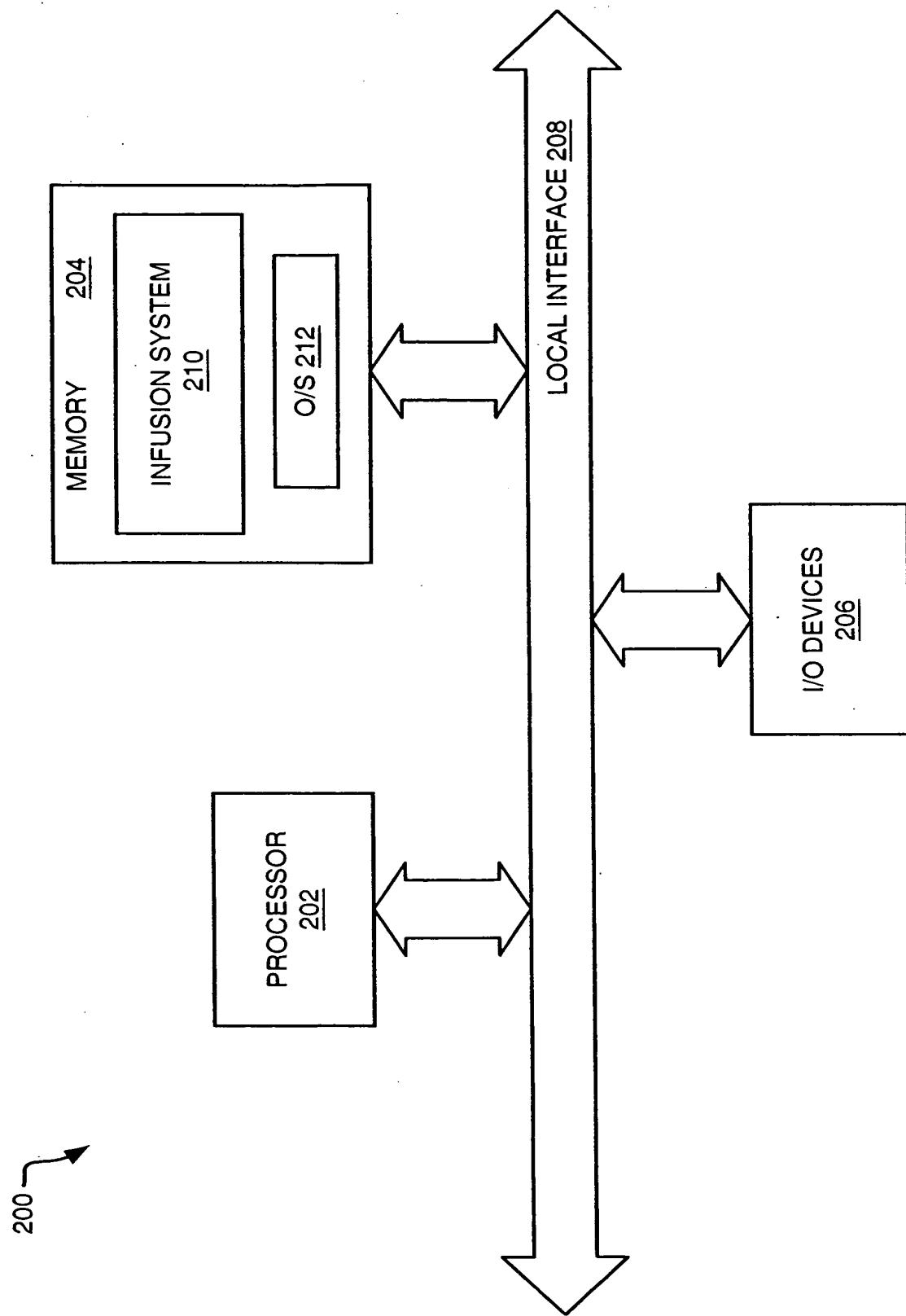


FIG. 1 104





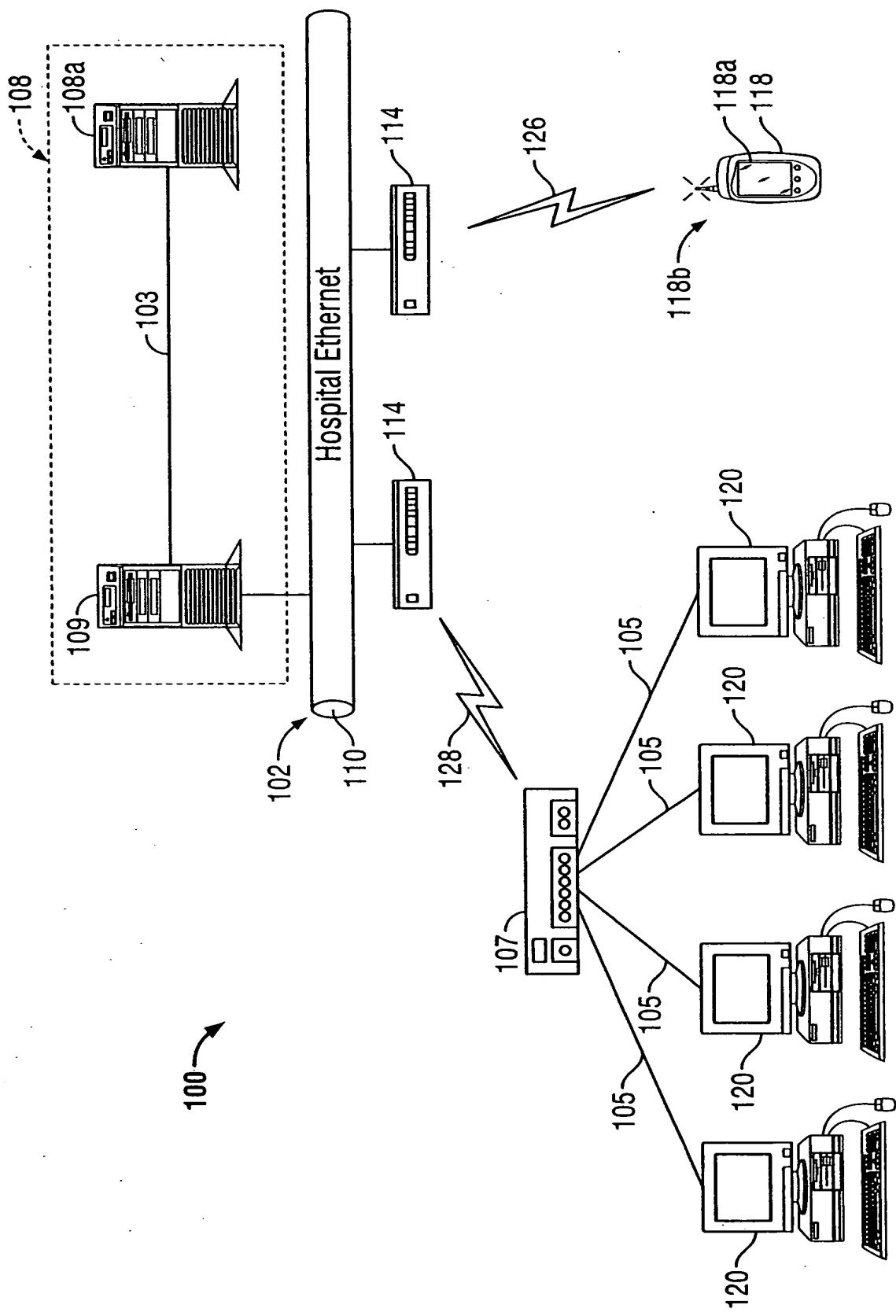


FIG. 3

FIG. 4

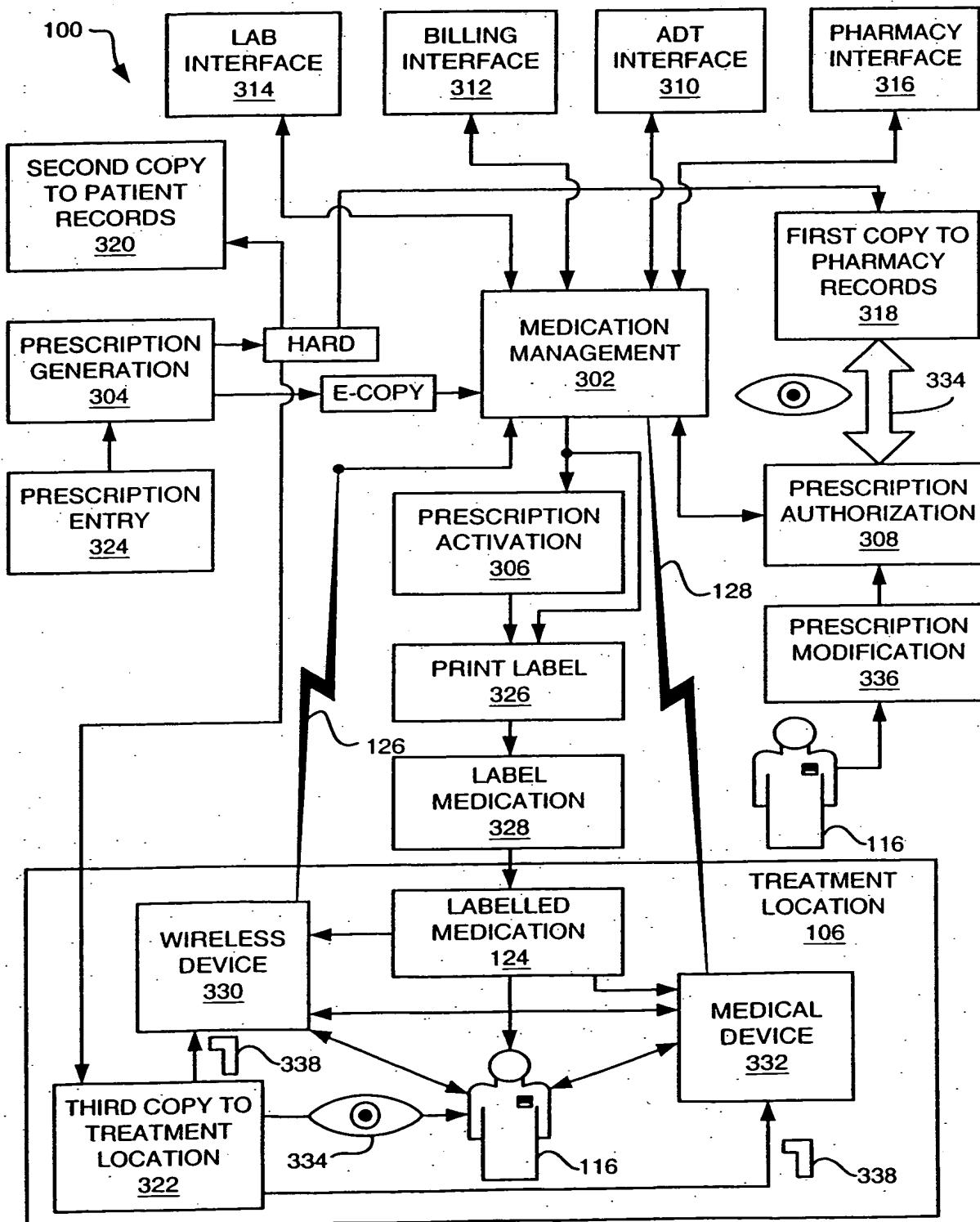


FIG. 5

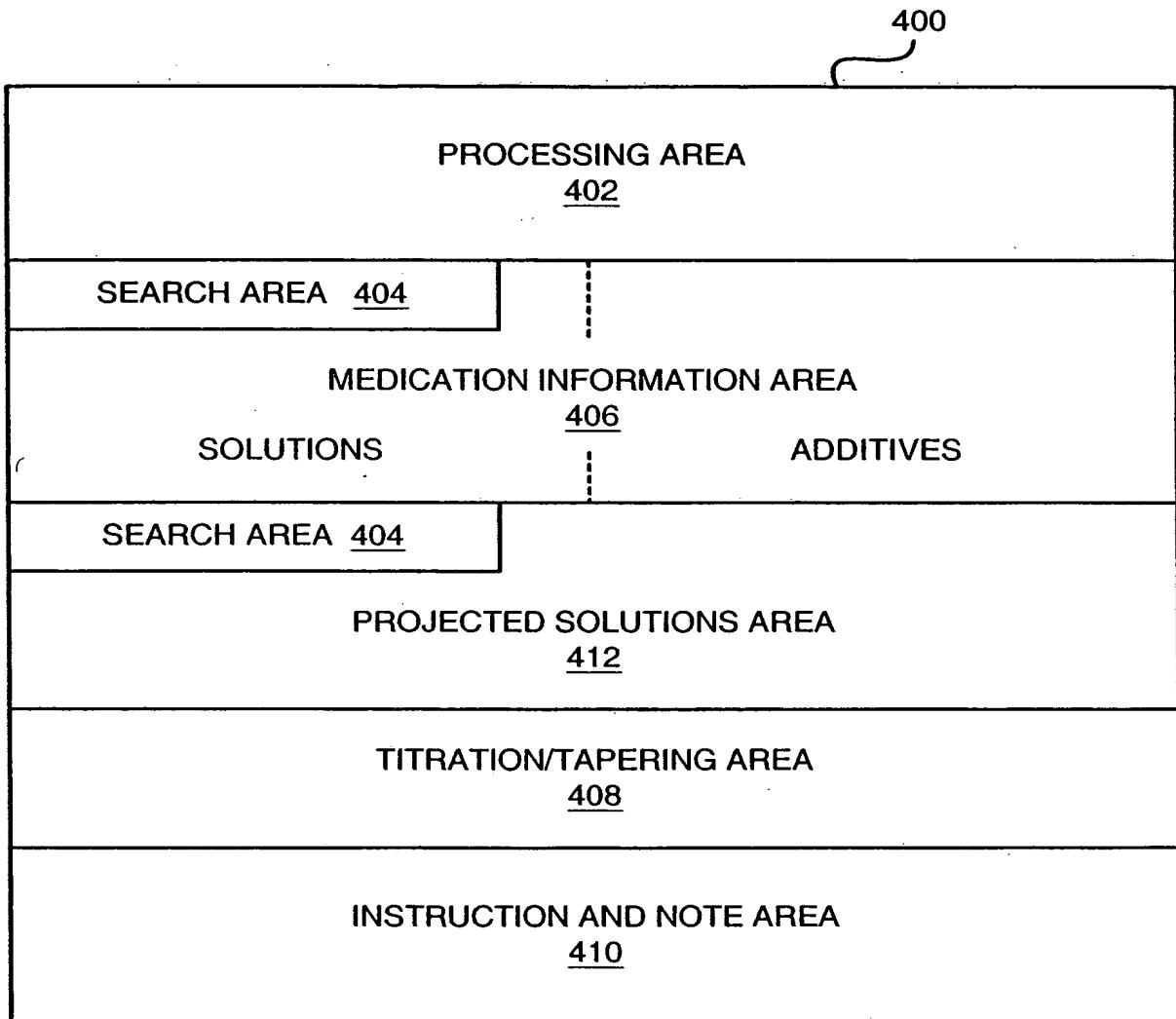


FIG. 6

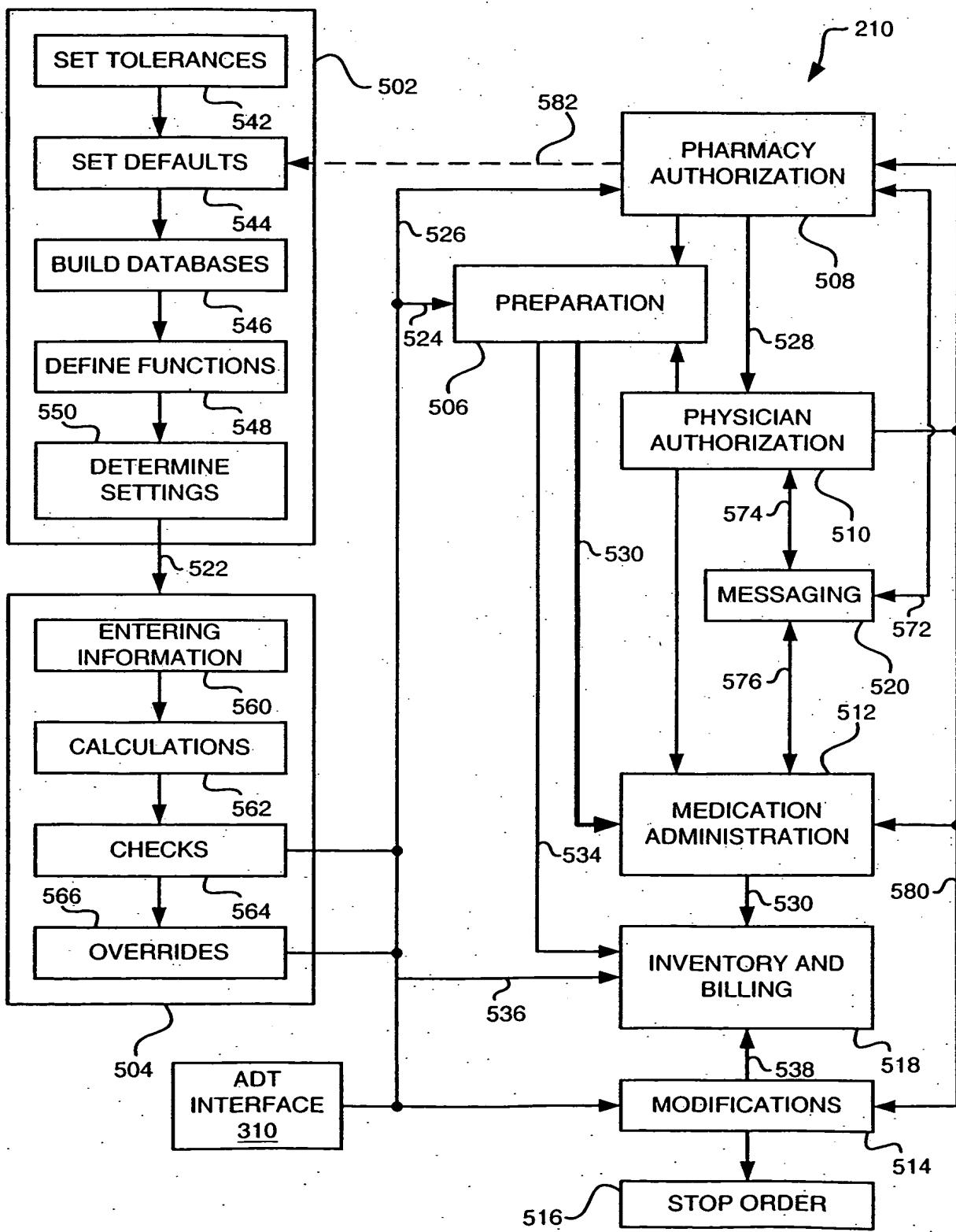


FIG. 7

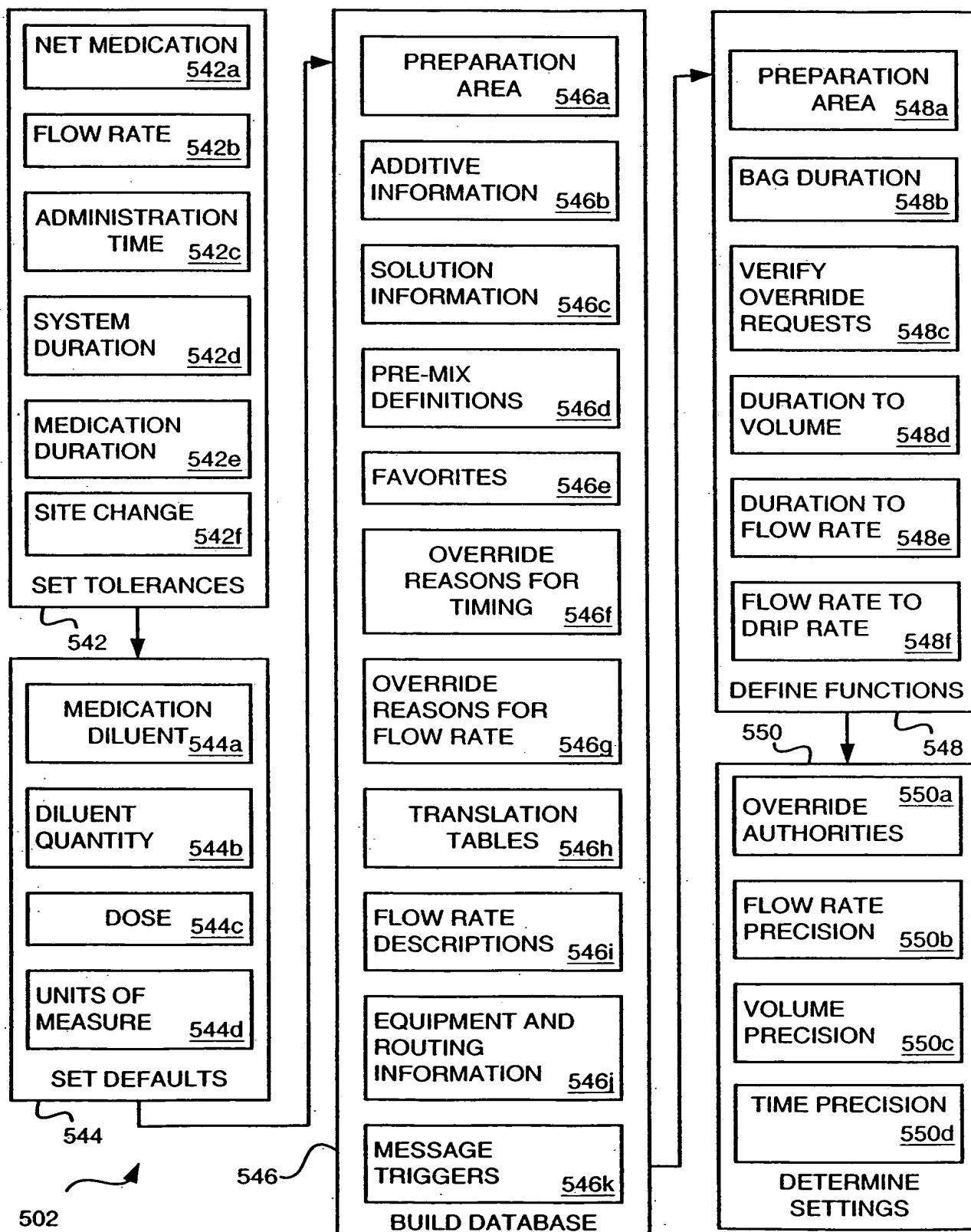


FIG. 8

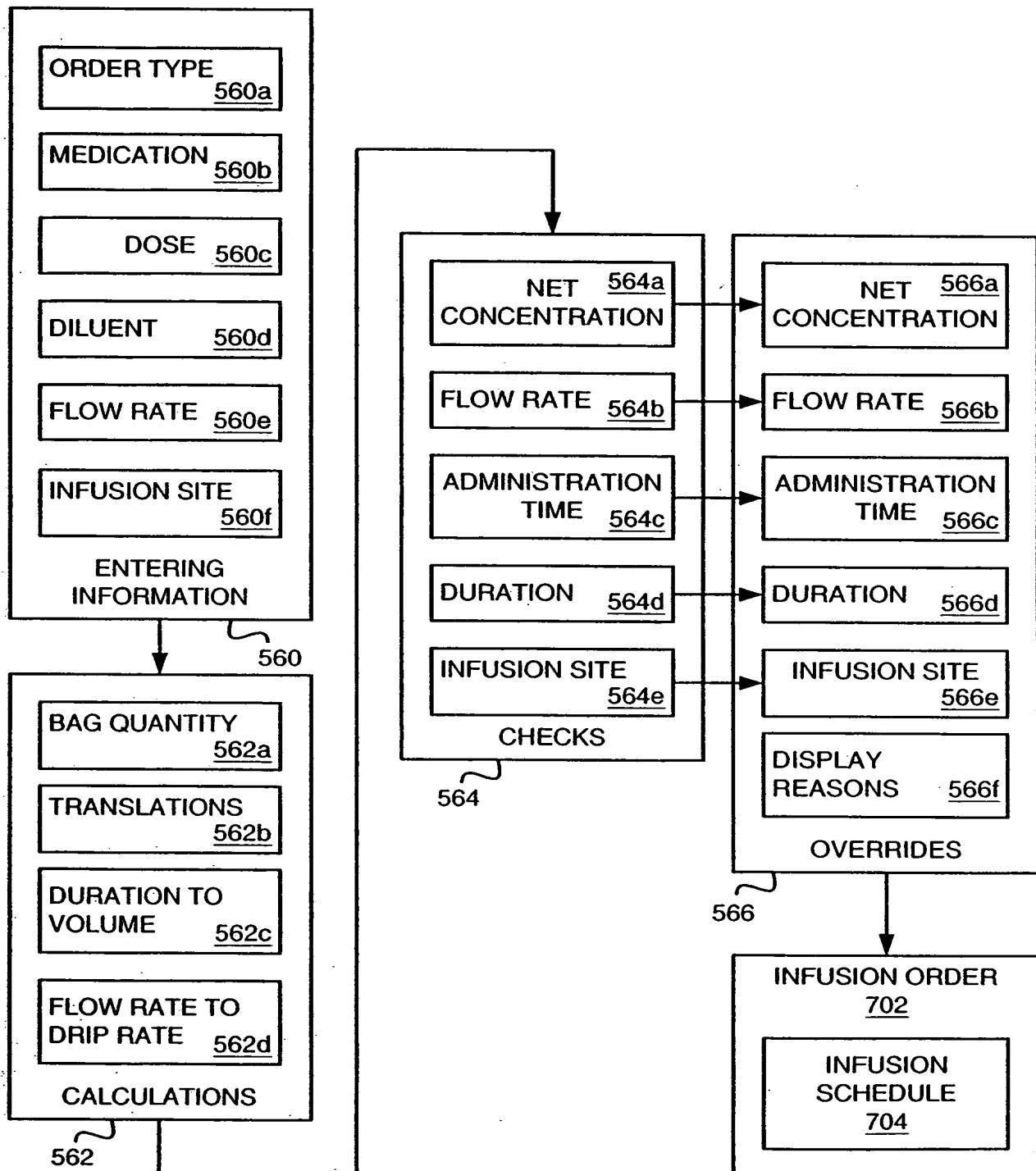


FIG. 9

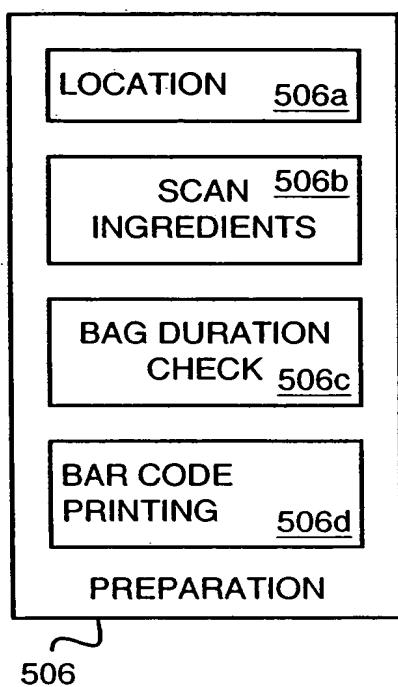


FIG. 10

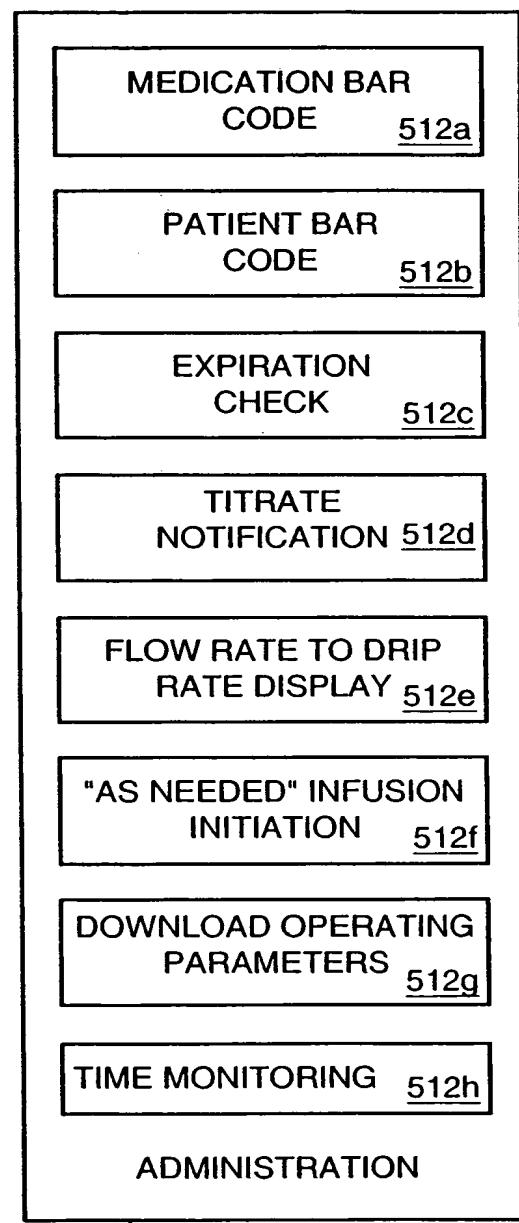
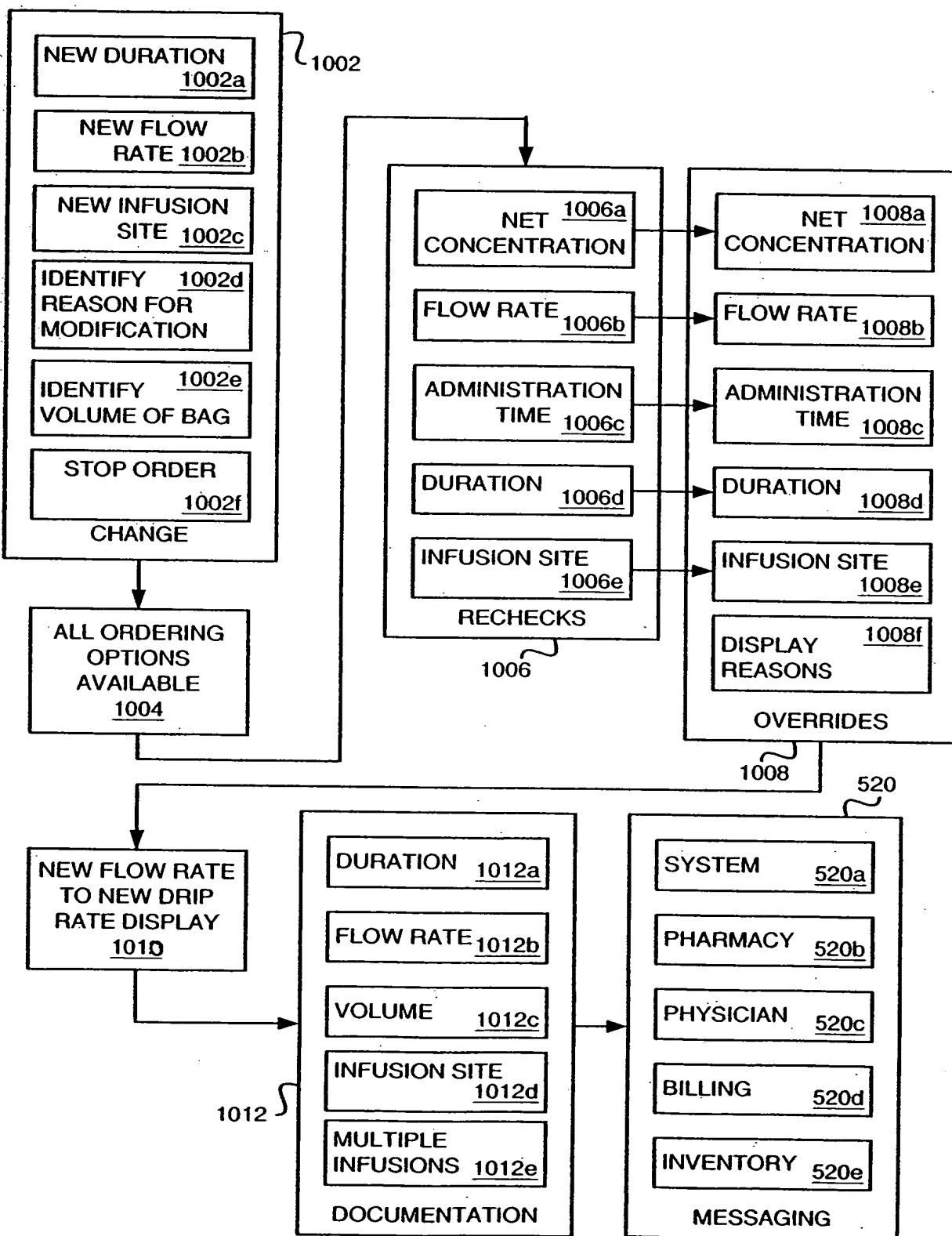


FIG. 11



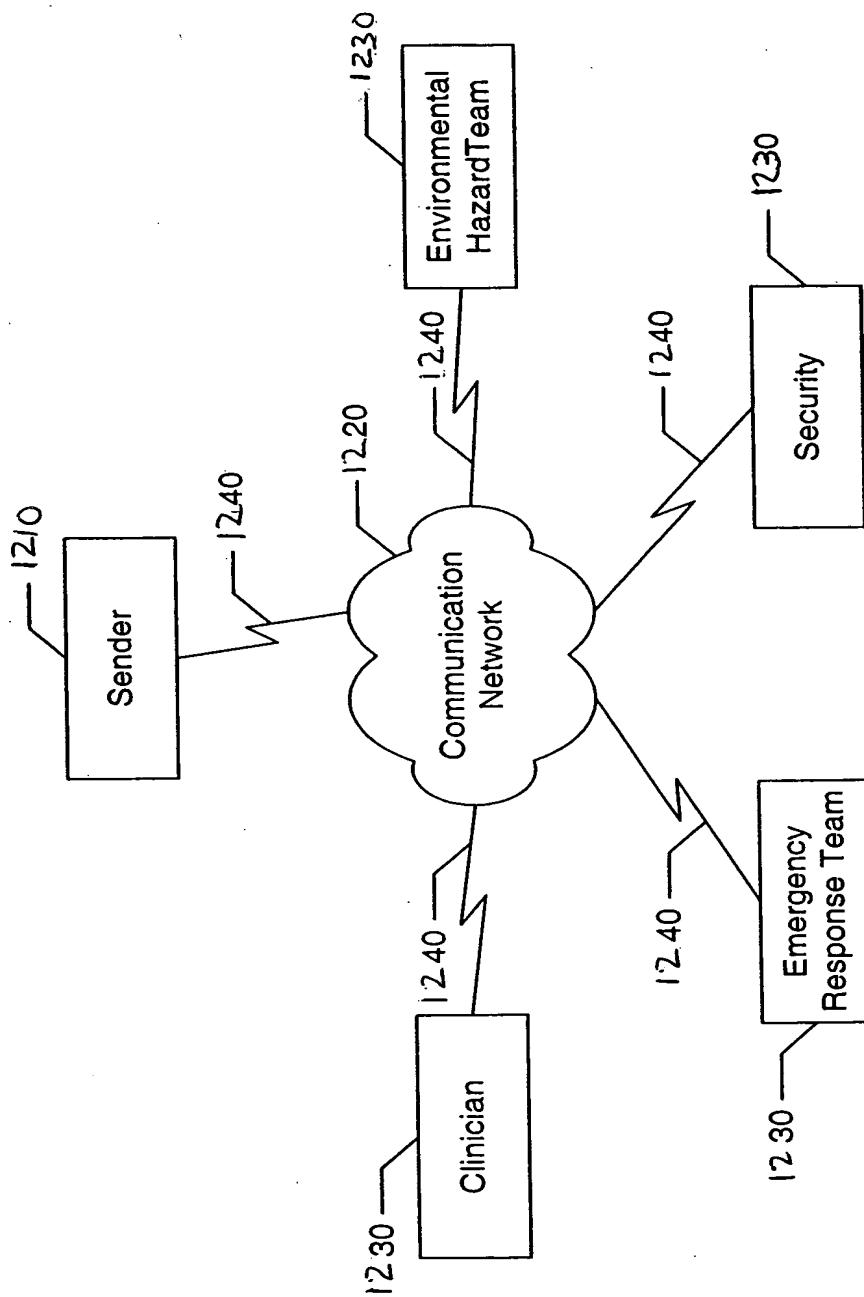


FIG. 12

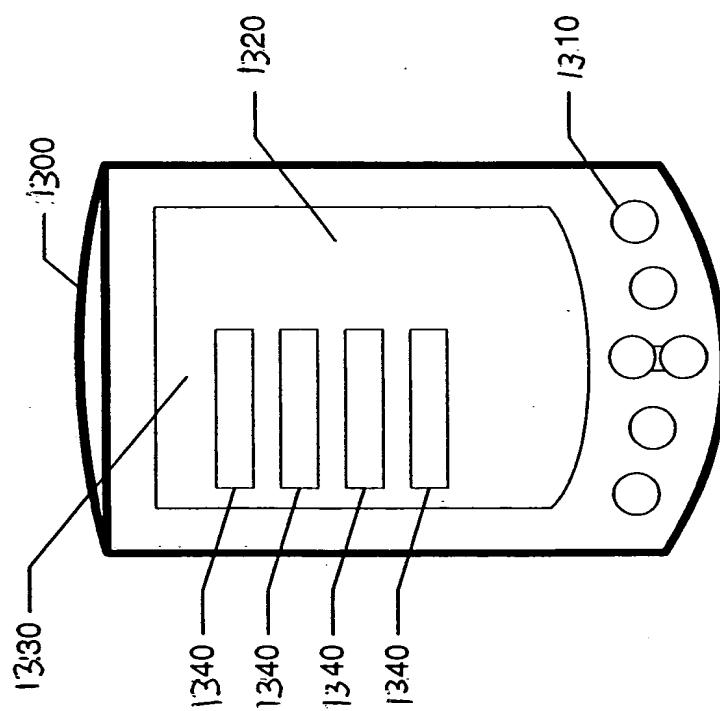
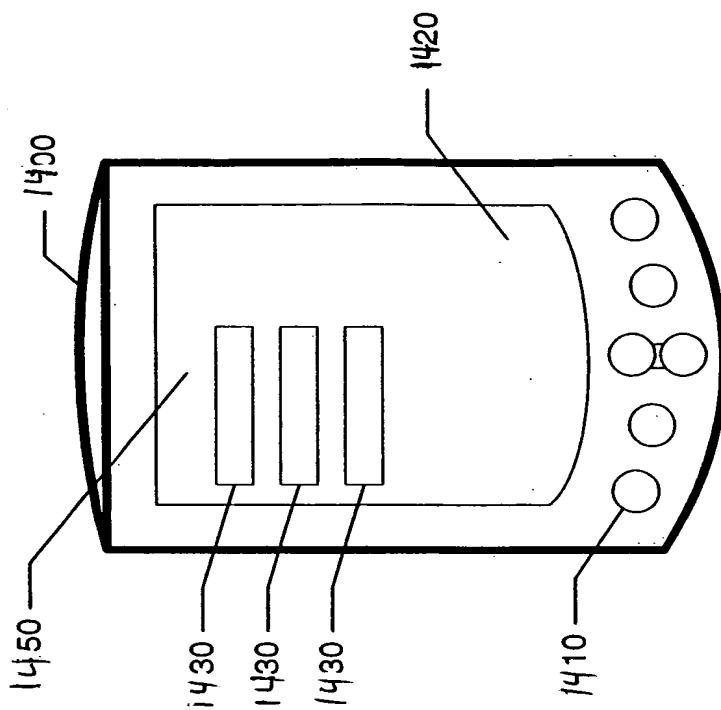
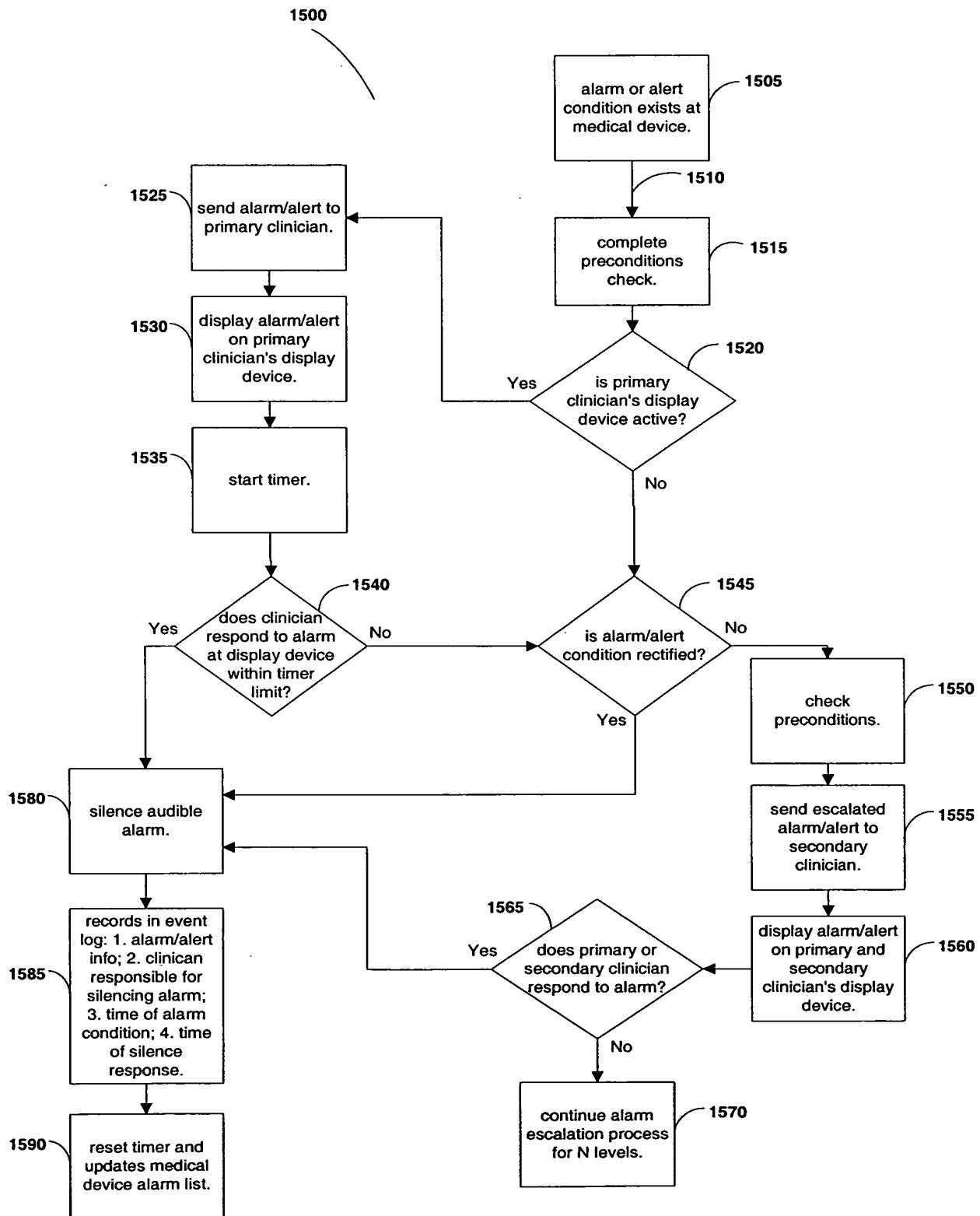


FIG. 15



1662a →

**4872 Pump Alarms & Alerts**

Rm - Bed	Patient	Patient
101 - B	<input checked="" type="checkbox"/> Patient, One	1664 1666
101 - C	<input checked="" type="checkbox"/> Patient, Two	1666
101 - D	<input checked="" type="checkbox"/> Patient, Three	

Exit

Refresh

4874 →

**FIG. 16A**

1662b →

**Nurse A, RN**

**Log Out**

**Pump Alarms & Alerts**

Rm - Bed	Patient	Patient
101 - B	<input checked="" type="checkbox"/> Patient, One	1676
101 - C	<input checked="" type="checkbox"/> Patient, Two	
101 - D	<input checked="" type="checkbox"/> Patient, Three	
465 - A	<input checked="" type="checkbox"/> Patient, Four	
321 - B	<input checked="" type="checkbox"/> Patient, Five	
543 - B	<input checked="" type="checkbox"/> Patient, Six	
135 - D	<input checked="" type="checkbox"/> Patient, Seven	

Exit

Refresh

**FIG. 16B**

 	 	<b>Nurse A, RN</b>																					
<b>Pump Alarms &amp; Alerts</b>																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Rm - Bed</th> <th style="width: 30%;">Patient</th> <th style="width: 40%;">Patient</th> </tr> </thead> <tbody> <tr> <td>101 - B</td> <td>Patient. One</td> <td>Patient. One</td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;"> <input checked="" type="checkbox"/> #1: Alarm message here             </td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;">               Anecef 1 g, in Dextrose, 5% 50 m             </td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;"> <input checked="" type="checkbox"/> #1: Alert message here             </td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;">               Anecef 1 g, in Dextrose, 5% 50 m             </td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;">           </td> </tr> </tbody> </table>			Rm - Bed	Patient	Patient	101 - B	Patient. One	Patient. One	<input checked="" type="checkbox"/> #1: Alarm message here			Anecef 1 g, in Dextrose, 5% 50 m			<input checked="" type="checkbox"/> #1: Alert message here			Anecef 1 g, in Dextrose, 5% 50 m			     		
Rm - Bed	Patient	Patient																					
101 - B	Patient. One	Patient. One																					
<input checked="" type="checkbox"/> #1: Alarm message here																							
Anecef 1 g, in Dextrose, 5% 50 m																							
<input checked="" type="checkbox"/> #1: Alert message here																							
Anecef 1 g, in Dextrose, 5% 50 m																							
<input type="button" value="Refresh"/>																							
 																							

1767

1878

1882

FIG. 18

1765

4819

FIG. 17

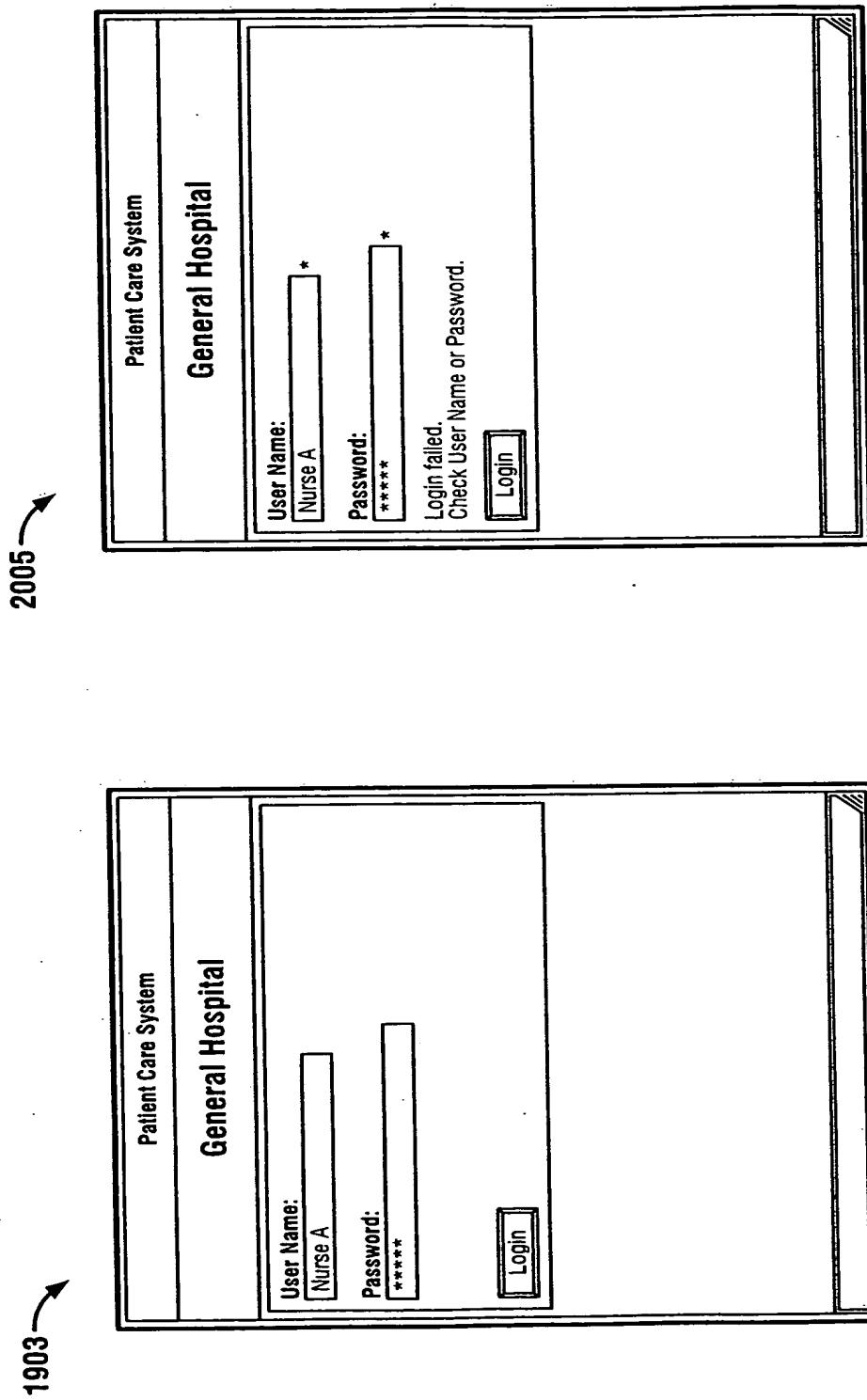
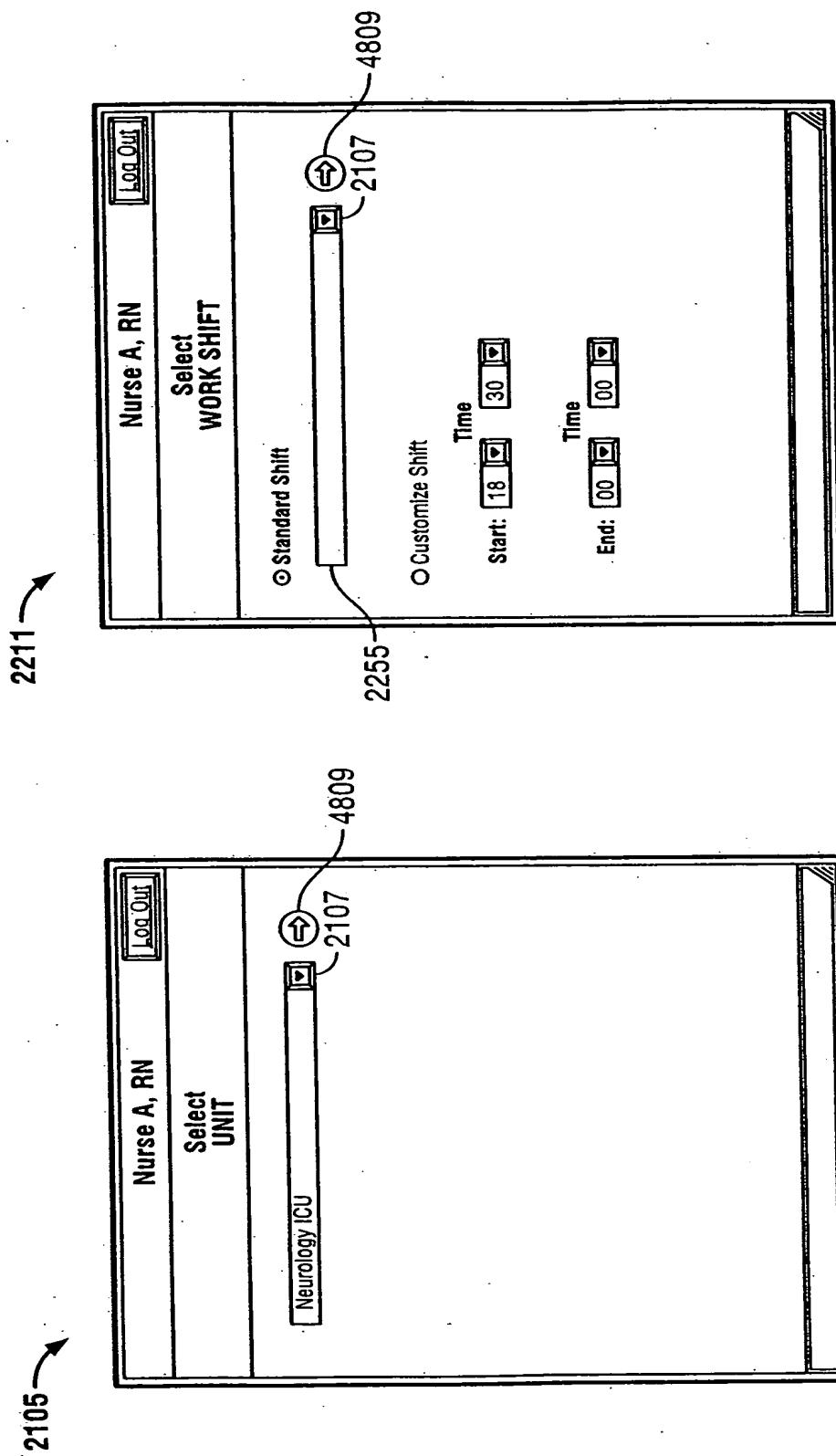


FIG. 20

FIG. 19



2313 →  
 2417 →  
 2315 →  
 2419 →

**FIG. 23**

	<b>Nurse A, RN</b>	<b>Log Out</b>
<b>My Patients</b> <b>My Tasks</b>		
<b>Scan Patient:</b>		
	<b>Patient</b>	
Rm - Bed		Patient. One
101 - B	<input checked="" type="checkbox"/> 1	Patient. One
101 - C	<input checked="" type="checkbox"/> 2	Patient. Two
101 - D	<input checked="" type="checkbox"/> 3	Patient. Three
<b>Add More Patients</b>		

**FIG. 24**

<b>Nurse A, RN</b>	<b>Log Out</b>
<b>Select PATIENTS</b>	
<b>Rm - Bed</b>	<b>Patient</b>
<input checked="" type="checkbox"/> 101 - B	Patient. One
<input checked="" type="checkbox"/> 101 - C	Patient. Two
<input checked="" type="checkbox"/> 101 - D	Patient. Three
<b>Add patient for:</b> <input type="checkbox"/> Entire shift	
<b>Find More Patients</b>	

2521a →  
 2521 →

	Ninety-Three, James RN	
Ninety Nine, Douglas, Mr. (MDLOC1) MDUnit1: MDRoom1 - MDBed1		
Dr. Ninety, Susan		
Mini-Chart: Allergies		
Allergies & HI/WI	Med HX	
Lab Results		
Drug Allergy		
Acetaminophen		
General Allergy		
Date Observed	Height	Weight
8-22 14:16	183.00 cm	85.00 Kg
	72.05 in.	187.39 Lbs
Back		

FIG. 25A

	Nurse A, RN	
Patient, One - 101-B		
Mini-Chart: Allergies(NKA)		
Administer Meds/Infusions		
STOP Infusion		
RESUME Infusion		
Titrate Infusion		
Flow Rate History		
Pump Status		
Remove Patient from Shift		
Back		

FIG. 25

2521b ↗  
 2521c ↗

Ninety-Three, James RN

Log Out

Ninety-Nine, Douglas, Mr. (MDLOC1)  
 MDUnit1: MDRoom1 - MDBed1  
 Dr. Ninety, Susan

Mini-Chart Allergies (NKA)

Allergies & Hx Med Hx

Lab Results

All O Scheduled O PRN O

Look Back Period: 24 hours

Order

Acetaminophen Cap 500 MG  
 500 MG = 1 CAP  
 Oral  
 TID  
 Admin Date: 6-3 12:53  
 Patient Refused Done...

Back

FIG. 25B

Ninety-Three, James RN

Log Out

Ninety-Nine, Douglas, Mr. (MDLOC1)  
 MDUnit1: MDRoom1 - MDBed1  
 Dr. Ninety, Susan

Mini-Chart Allergies

Allergies & Hx Med Hx

Lab Results

Lab Test	Result	Range	H/I	Date
POTASSIUM	3.1	3.6-5 mmol/L	Normal	5/16/2003 9:00:00 AM

Back

FIG. 25C

**Top Screenshot (2629): Mini-Chart for Patient One - 101-B**

**User Interface Elements:**

- Top Bar: Log Out, Nurse A, RN
- Patient Information: Patient, One - 101-B
- Section: Mini-Chart: Allergies (NKA)
- Text: MA-Continuous Infusion Dextrose 5% W/Sodium Chloride 0.45% 200 ML
- Text: Route: Intravenous
- Text: Flow Rate: 50 ML/H
- Text: Estimated Admin. Period: 4 Hours
- Text: Warning: Wear Gloves
- Text: Show Edubyte info here

**Bottom Screenshot (2623): Medication Schedule for Patient One - 101-B**

**User Interface Elements:**

- Top Bar: Log Out, Nurse A, RN
- Patient Information: Patient, One - 101-B
- Section: Mini-Chart: Allergies (NKA)
- Text: < 10:19 - 12:19 - ≥
- Text: SCHED 13
- Table: Medication Schedule
 | Time | Med | Last |
| --- | --- | --- |
| 11:30 | MORPHINE SULFATE | 12-9 |
|  | Continuous infusion | 2:00 |
| 13:30 | Continuous infusion (De) | 2625 |
| 15:30 | Continuous infusion (De) |  |
| 17:30 | Continuous infusion (De) |  |

FIG. 26A

FIG. 26

2727a →  
2727b →

90-3, James RN Log Out

WORKFLOW INFUSION: STOP  
Ninety-Six, Samuel, Mr. MDRoom1-  
MDBed1

Mini-Chart: Allergies

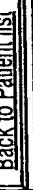
Scan Item:  

Continuous Infusion  
Dextrose In 20%  
500 ML  
Route: Intravenous Flow Rate: 125  
ML/H  
Estimated Administration Period: 4  
Hours

Please select a reason for Stop  
Infusion

Discontinue order in system

Stop Time [M/D/Y HH:MM]  
06/18/2003  15  23

 Cancel  
 Back to Patient list

Back to Patient list

FIG. 27A

90-3, James RN Log Out

WORKFLOW INFUSION: STOP  
Ninety-Six, Samuel, Mr. MDRoom1-  
MDBed1

Mini-Chart: Allergies

Continuous Infusion  
Dextrose In 20%  
500 ML  
Route: Intravenous Flow Rate: 125  
ML/H  
Estimated Administration Period: 4  
Hours

Please select a reason for Stop  
Infusion

Discontinue order in system

Stop Time [M/D/Y HH:MM]  
06/18/2003  15  23

 Cancel  
 Back to Patient list

FIG. 27B

2727d ↗

	Ninety-Three, James RN	<input type="button" value="Log Out"/>
<b>WORKFLOW INFUSION: RESUME</b> Ninetyfour-Pointfive, Fred, Mr. MDRoom1 - MDBed1 Mini-Chart: Allergies (Not Specified)		
Continuous Infusion Dextrose Inf 20% 500 ML Route: Intravenous Flow Rate: 125 ML/H Estimated Administration Period: 4 Hours		
Stopped w/o Order Please select a reason for Resume Infusion <input type="button" value="Site re-established"/>		

4809 ↗

FIG. 27D

2727c ↗

	Ninety-Three, James RN	<input type="button" value="Log Out"/>
<b>WORKFLOW INFUSION: RESUME</b> Ninetyfour-Pointfive, Fred, Mr. MDRoom1 - MDBed1 Mini-Chart: Allergies (Not Specified)		
Scan Item:		
Continuous Infusion Dextrose Inf 20% 500 ML Route: Intravenous Flow Rate: 125 ML/H Estimated Administration Period: 4 Hours		
Stopped w/o Order 		

FIG. 27C

**FIG. 28 (Bottom Screen):**

**SCHED 13**

Time	Med	Last
13:30	<input checked="" type="checkbox"/> MORPHINE SULFATE Continuous Infusion	12:9 2:00
13:30	<input type="checkbox"/> Continuous Infusion (De)	2839
15:30	<input type="checkbox"/> Continuous Infusion (De)	
17:30	<input type="checkbox"/> Continuous Infusion (De)	

4837 →

**FIG. 29 (Top Screen):**

**Missed Medication**  
 Please select a reason for LATE:

2943 →

2941 →

2945 →

Adjust schedule for:  
 MORPHINE SULFATE  
 Continuous Infusion  
 60 MG = 30 ML  
 Route: Injection  
 Flow Rate: 30 ML/H  
 Estimated Admin. Period: 1 Hour

FIG. 28

FIG. 29

Patient, One - 101-B			
Mini-Chart : Allergies (NKA)			
<- 10:19 - 12:19 ->			
<input checked="" type="checkbox"/> SCHED 13			
Time	Med	Last	
13:30	MORPHINE SULFATE	12:9	
	Continuous Infusion	2:00	
	<input type="checkbox"/> NR	<input checked="" type="checkbox"/> Δ	
13:30	Continuous Infusion	2839	
	<input type="checkbox"/> NR	<input checked="" type="checkbox"/> Δ	
15:30	Continuous Infusion	De	
	<input type="checkbox"/> NR	<input checked="" type="checkbox"/> Δ	
17:30	Continuous Infusion	De	
	<input type="checkbox"/> NR	<input checked="" type="checkbox"/> Δ	

3135 →

4857 →

3045 →

3047 →

Patient, One - 101-B	
Mini-Chart : Allergies (NKA)	
<input checked="" type="checkbox"/> Missed Medication Please select a reason for LATE	
Patient unavailable at sched. time	
<input type="checkbox"/> Not Required Cycle Count Insufficient Stock Re-open drawer Maintain Admin Test Already have item Item Unavailable Refused	

FIG. 30

FIG. 31

3351 ↗

**FIG. 33**

Nurse A, RN		Patient, One - 101-B																
<input type="button" value="Log Out"/>	<input type="button" value="Log In"/>	<input type="button" value="Scan Depot"/>	<input type="button" value="Scan Depot"/>															
Mini-Chart : Allergies (NKA)		Search Items																
		<input type="text"/>	<input type="button" value="Search"/>															
		<table border="1"> <thead> <tr> <th>Item</th> <th>DepotUnit</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>Morphine Sulfate Inj</td> <td>In other</td> <td></td> </tr> <tr> <td>2 MG/ML QA</td> <td>units</td> <td></td> </tr> <tr> <td>Morphine Sulfate Inj</td> <td>In other</td> <td></td> </tr> <tr> <td>2 MG/ML QA</td> <td>units</td> <td></td> </tr> </tbody> </table>		Item	DepotUnit	Qty	Morphine Sulfate Inj	In other		2 MG/ML QA	units		Morphine Sulfate Inj	In other		2 MG/ML QA	units	
Item	DepotUnit	Qty																
Morphine Sulfate Inj	In other																	
2 MG/ML QA	units																	
Morphine Sulfate Inj	In other																	
2 MG/ML QA	units																	
		<input type="button" value="Skip Scan Depot"/>																

3353 ↗

3355 ↗

3235 ↗

**FIG. 32**

Nurse A, RN		SCHED 13	
		Last	
		11:29	
		2:00	
	Time	Med	
<input checked="" type="checkbox"/>	11:30	MORPHINE SULFATE	3225
		Continuous Infusion	
		△	
<input type="checkbox"/>	13:30	Continuous Infusion (De	
		SI	
		NR	
<input type="checkbox"/>	15:30	Continuous Infusion (De	
		SI	
		NR	
<input type="checkbox"/>	17:30	Continuous Infusion (De	
		△	
		NR	
<input type="button" value="Get Items"/>			

3249 ↗

3569 ↗

Nurse A, RN

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

Scan Depot:

Scan code is invalid.

Item	DepositUnit	Qty
Morphine Sulfate Inj	In Other units	
2 MG/ML QA		
Morphine Sulfate Inj	In Other units	
2 MG/ML QA		

Skip Scan Depot

FIG. 35

3465 ↗

Nurse A, RN

Patient, One - 101-B

Mini-Chart : Allergies (NKA)

Scan Item:

3467

MORPHINE SULFATE	Continuous Infusion
60 MG = 30 ML	Route: Injection
Flow Rate: 30 ML/H	Estimated Admin. Period: 1 Hour

Quantity:  ML(s)

Get: 30 ML

Warning: Wear Gloves

Show Edubyte Info here

FIG. 34

3771 ↗

<input type="button" value="Log Out"/>	<b>Nurse C, RN</b>
<input type="button" value="Scan Patient"/>	<b>Patient, Three , Mr. 100-C</b>
<b>Mini-Chart : Allergies</b>	
<b>Verify Route, Line &amp; Site</b>	
Rx Sodium Chloride 0.9% Continuous Infusion Rx Sodium Chloride 0.9% <i>3778</i> 1000 ML Route: Intravenous Flow Rate: 50 ML/H Estimated Administration Period: 20 Hours	
Please hang the bag, program the pump and record the following information but DO NOT start the pump channel until instructed:	
Router:	<input type="button" value="Intramuscular"/> <i>3773</i>
Line:	<input type="button" value="Central"/> <i>3775</i>
Site:	<input type="button" value="Right Forearm"/> <i>3777</i>
<input type="button" value="Compare Route"/>	

4817 ↗

FIG. 37

3657 ↗

<input type="button" value="Log Out"/>	<b>Nurse A, RN</b>
<input type="button" value="Scan Patient"/>	<b>Patient, One - 101-B</b>
<b>Mini-Chart : Allergies (NKA)</b>	
<input type="button" value="Scan Patient"/>	<i>3659</i>
If Cannot admin, select a reason: <input type="button" value="Waste/Return"/> <i>3661</i>	
<input type="button" value="Not Req Due to Monitoring Result"/> <input type="button" value="Patient Unavailable"/> <input type="button" value="Refused"/>	
<input type="button" value="Waste/Return"/> <i>3663</i>	

3663 ↗

FIG. 36

**Top Screenshot (Scan Pump Channel):**

<input type="button" value="Logout"/>	<b>Nurse C, RN</b>
<input type="button" value="Logout"/>	<b>Patient, Three , Mr. 100-C</b>
<input type="button" value="Logout"/>	<b>Mini-Chart : Allergies</b>
<b>Scan Pump Channel</b>	
Rx Sodium Chloride 0.9% Continuous Infusion Rx Sodium Chloride 0.9% 1000 ML Route: Intravenous Flow Rate: 50 ML/H Estimated Administration Period: 20 Hours	
Scan Pump Channel <input type="button" value="*****"/> <input type="button" value="4809"/>	

**Bottom Screenshot (Select Pump Channel Mode):**

<input type="button" value="Logout"/>	<b>Nurse C, RN</b>
<input type="button" value="Logout"/>	<b>Patient, Three , Mr. 100-C</b>
<input type="button" value="Logout"/>	<b>Mini-Chart : Allergies</b>
<b>Select Pump Channel Mode</b>	
Rx Sodium Chloride 0.9% Continuous Infusion Rx Sodium Chloride 0.9% 1000 ML Route: Intravenous Flow Rate: 50 ML/H Estimated Administration Period: 20 Hours	
Select Pump Channel Mode: <input type="button" value="3882"/>	
Primary <input type="button" value="3884"/> <input type="button" value="Plowback"/> <input type="button" value="3883"/>	

**FIG. 38A**

**FIG. 38**

3986 ↗ 3987 ↗

	Nurse C, RN	
Patient, Three, Mr. 1 West: 100-C MD1, Test		
Continuous Infusion Rx Sodium Chloride 0.9% 1000 mL Route: Intravenous Flow Rate: 50 mL/hr Estimated Administration Period: 24 Hours		
Program the Pump Channel and:  > If this is a PRIMARY. Click COMPARE below Now and wait until instructed to start pump channel.		
> If this is a PIGGYBACK -- Press the "start" key on the pump. Now, then Click COMPARE If Piggyback Infusion, ensure PRIMARY is placed LOWER THAN than PIGGYBACK and that PIGGYBACK roller clamp is OPEN.		
4817		

FIG. 39

	Nurse A, RN													
Patient, One Rm - Bed 101-B Dr. One (111)111-1111 ext. 1														
Pharm & Pump Comparison														
Amcet 1 g, In Dextrose, 5% 50 mL run at 100 mL/hr														
<table border="1"> <tr> <td></td> <td>Pharm</td> <td>=</td> <td>Pump</td> </tr> <tr> <td></td> <td>Label</td> <td></td> <td>Settings</td> </tr> <tr> <td></td> <td>Rate</td> <td>100 mL/hr</td> <td>100 mL/hr</td> </tr> </table>				Pharm	=	Pump		Label		Settings		Rate	100 mL/hr	100 mL/hr
	Pharm	=	Pump											
	Label		Settings											
	Rate	100 mL/hr	100 mL/hr											

FIG. 39A

4087 ↗  
 4187 ↗

4825 ↗

	<b>Nurse A, RN</b>							
Patient, One Rm - Bed 101-B Dr. One (111)111-1111 ext. 1								
Pharm & Pump Comparison								
Ancel 1 g. In Dextrose, 5% 50 mL run at 100 mL/hr								
<table border="1"> <tr> <td></td> <td>Pharm Label</td> <td>Pump Settings</td> </tr> <tr> <td>Rate</td> <td>100 mL/hr</td> <td>50 mL/hr</td> </tr> </table>				Pharm Label	Pump Settings	Rate	100 mL/hr	50 mL/hr
	Pharm Label	Pump Settings						
Rate	100 mL/hr	50 mL/hr						
<p>Please Verify with PHYSICIAN Order.                  Then to accept the mismatch, press "Start" key on pump                  and then click "OK" below.                  You can also reprogram the pump and then click                  "Compare again."</p>								
<input type="button" value="OK"/>								

FIG. 40

	<b>Nurse A, RN</b>							
Patient, One Rm - Bed 101-B Dr. One (111)111-1111 ext. 1								
Pharm & Pump Comparison								
Ancel 1 g. In Dextrose, 5% 50 mL run at 100 mL/hr								
<table border="1"> <tr> <td></td> <td>Pharm Label ?</td> <td>Pump Settings</td> </tr> <tr> <td>Rate</td> <td>100 mL/hr</td> <td>50 mL/hr</td> </tr> </table>				Pharm Label ?	Pump Settings	Rate	100 mL/hr	50 mL/hr
	Pharm Label ?	Pump Settings						
Rate	100 mL/hr	50 mL/hr						
<p>Cannot Compare.                  Press "Rate" key and COMPARE.</p>								
<input type="button" value="COMPARE"/>								

FIG. 41

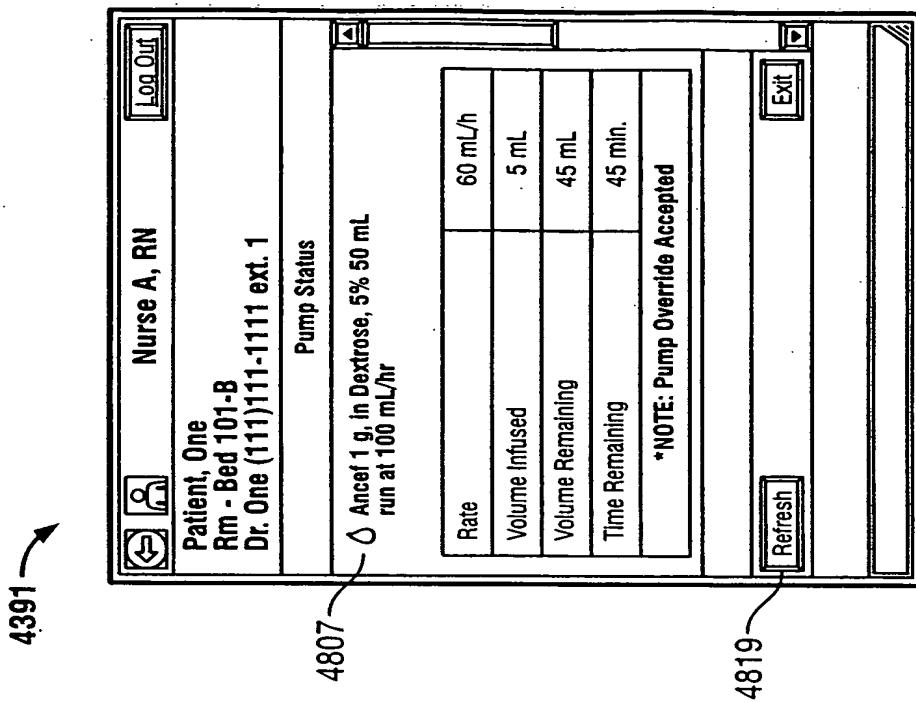


FIG. 43

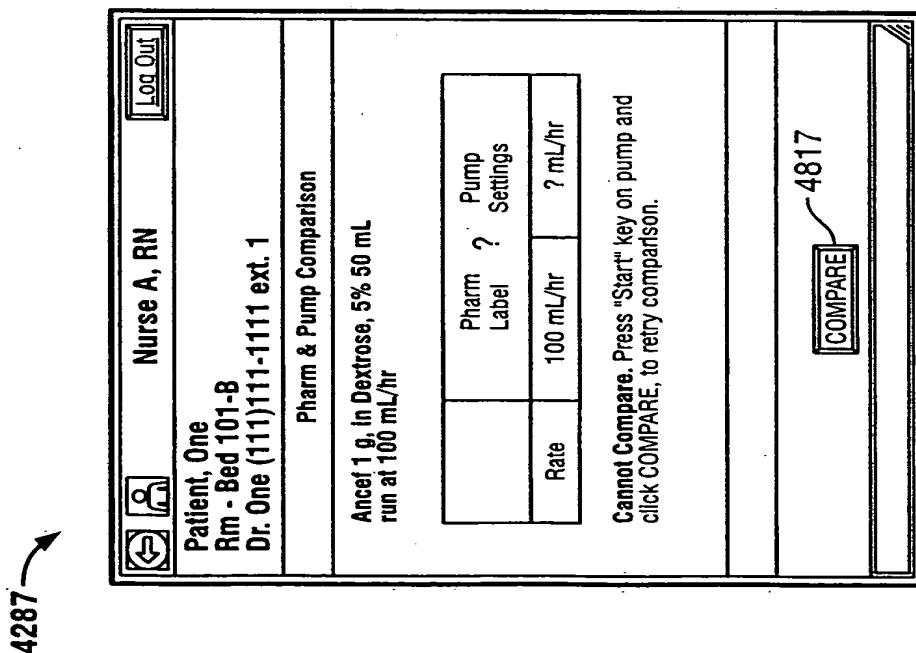


FIG. 42

4493 ↗  
 4501 ↗

**Nurse A, RN**

**Patient, One**  
**Rm - Bed 101-B**  
**Dr. One (111)111-1111ext. 1**

**Flow Rate History**

Δ **Ancef 1 g, In Dextrose, 5% 50 mL**  
 run at 100 mL/hr

60 mL/h	@ 10:55 AM	3/13
70 mL/h	@ 10:55 AM	3/13
80 mL/h	@ 10:54 AM	3/13

**Exit**

**Refresh**

**FIG. 44**

**Nurse A, RN**

**Log Out**

**Communication Loss Alert**  
 for the following Patients

Rm - Bed	Patient
101 - B	<input checked="" type="checkbox"/> Patient, One
101 - C	<input checked="" type="checkbox"/> Patient, Two
101 - D	<input checked="" type="checkbox"/> Patient, Three

**Trouble Shooting Tips:**

If a Yellow light is flashing on the  
 WIRELESS MODULE and it is beeping,  
 the system may be down. Call IT or  
 Biomed.

**- OR -**

Plug in and turn on all pumps.  
 If that does not resolve the problem,  
 Call IT or Biomed.

**Exit**

**FIG. 45A**

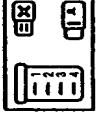
4603

**Nurse A, RN**

**Low Battery Alert**  
for the following Patients

Rm - Bed	Patient	Patient
101 - B	<input checked="" type="checkbox"/>	Patient. One

Less than 30 minutes of battery left  
in WIRELESS MODULE.



Plug WIRELESS MODULE into power outlet.

**Exit** 

**Refresh** 

**FIG. 46**

4501

**Nurse A, RN**

**Communication Loss Alert**  
for the following Patients

Rm - Bed	Patient	Patient. Three
101 - D	<input checked="" type="checkbox"/>	

**Trouble Shooting Tips:**

If a Yellow light is flashing on the WIRELESS MODULE and it is beeping, the system may be down. Call IT or Biomed.

- OR -

Plug in and turn on all pumps. If that does not resolve the problem, Call IT or Biomed.

**Exit** 

**Refresh** 

**FIG. 45B**

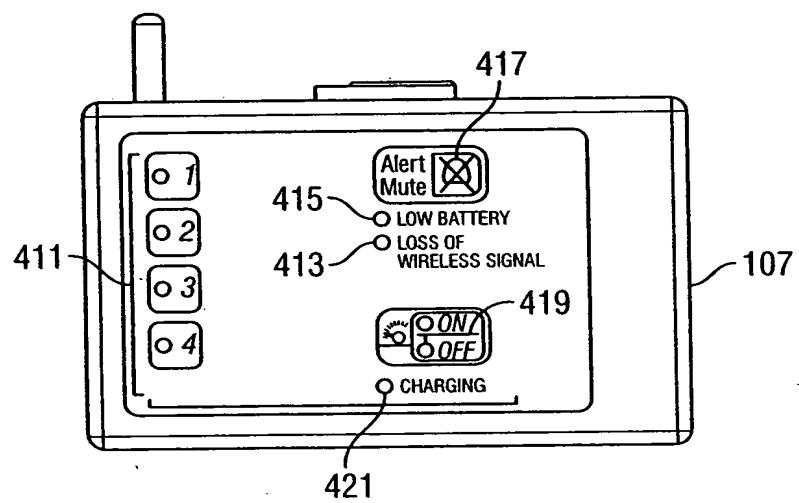


FIG. 47

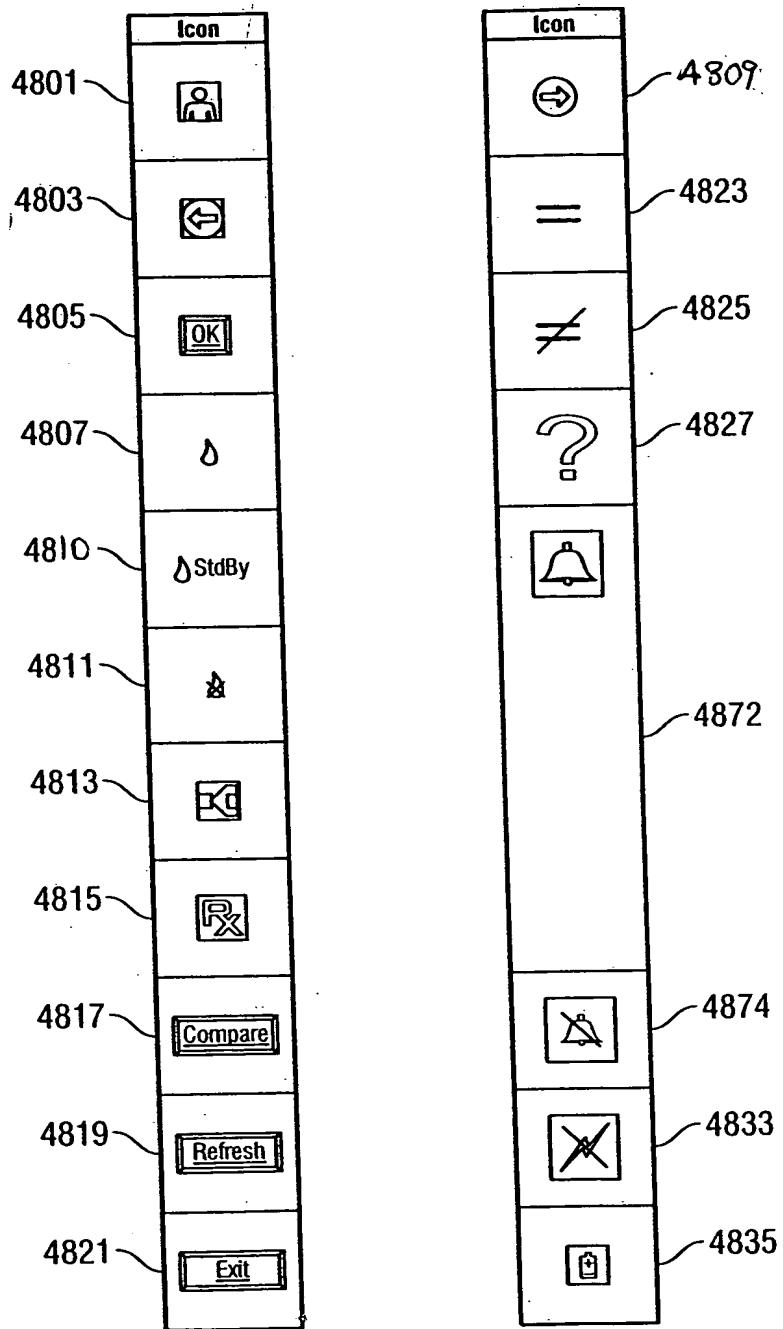


FIG. 48

4937

5003

**Mini-Chart : Allergies (NKA)**

**Mini-Chart : Allergies (NKA)**

**Monitoring Parameters**

**Blood Pressure**

**Supine**

**Save**

**Back**

**Record Admin Result**

**Please select Admin Result:**

**MORPHINE SULFATE**

Continuous Infusion  
60 MG = 30 ML  
Route: Injection  
Flow Rate: 30 ML/H  
Estimated Admin. Period: 1 Hour

**Last**

**Time**

**Med**

**11**

**FIG. 49**

FIG. 49

FIG. 50

FIG. 50A

5101 →

Ninety-Three, James RN

Eightytwo, Anthony, MD Room 1-  
MDDefaultBed

Mini-Chart: Allergies

ACETAMINOPHEN/CODEINE #4  
Acetaminophen w/ Codeine Tab  
300-60 MG 60 MG = 1 TAB Oral  
QID

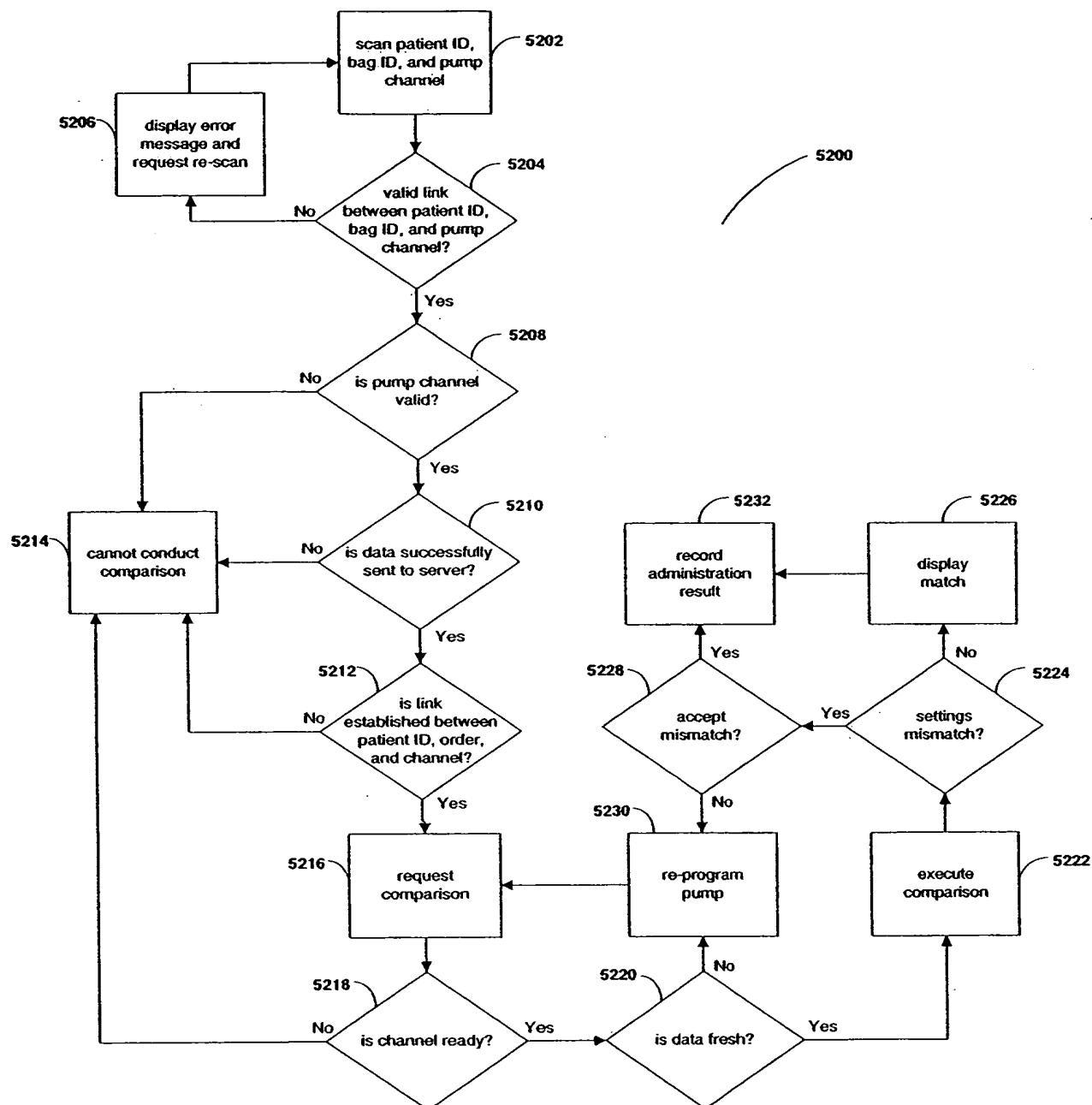
Drawer 1, Bin 05

Count before the removal of  
medication(first count)

Qty on hand:  TAB(s)

FIG. 51

FIG. 52



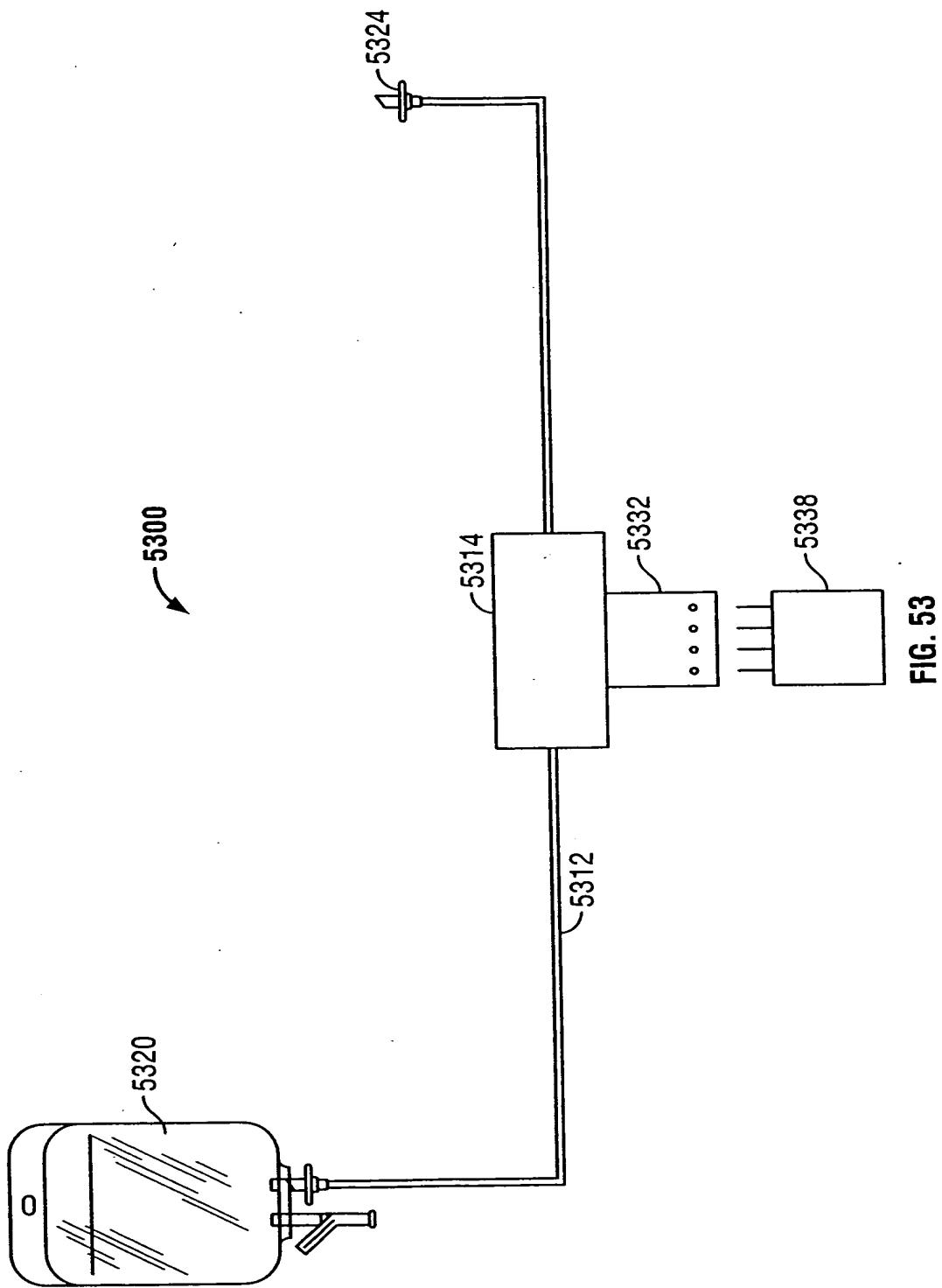
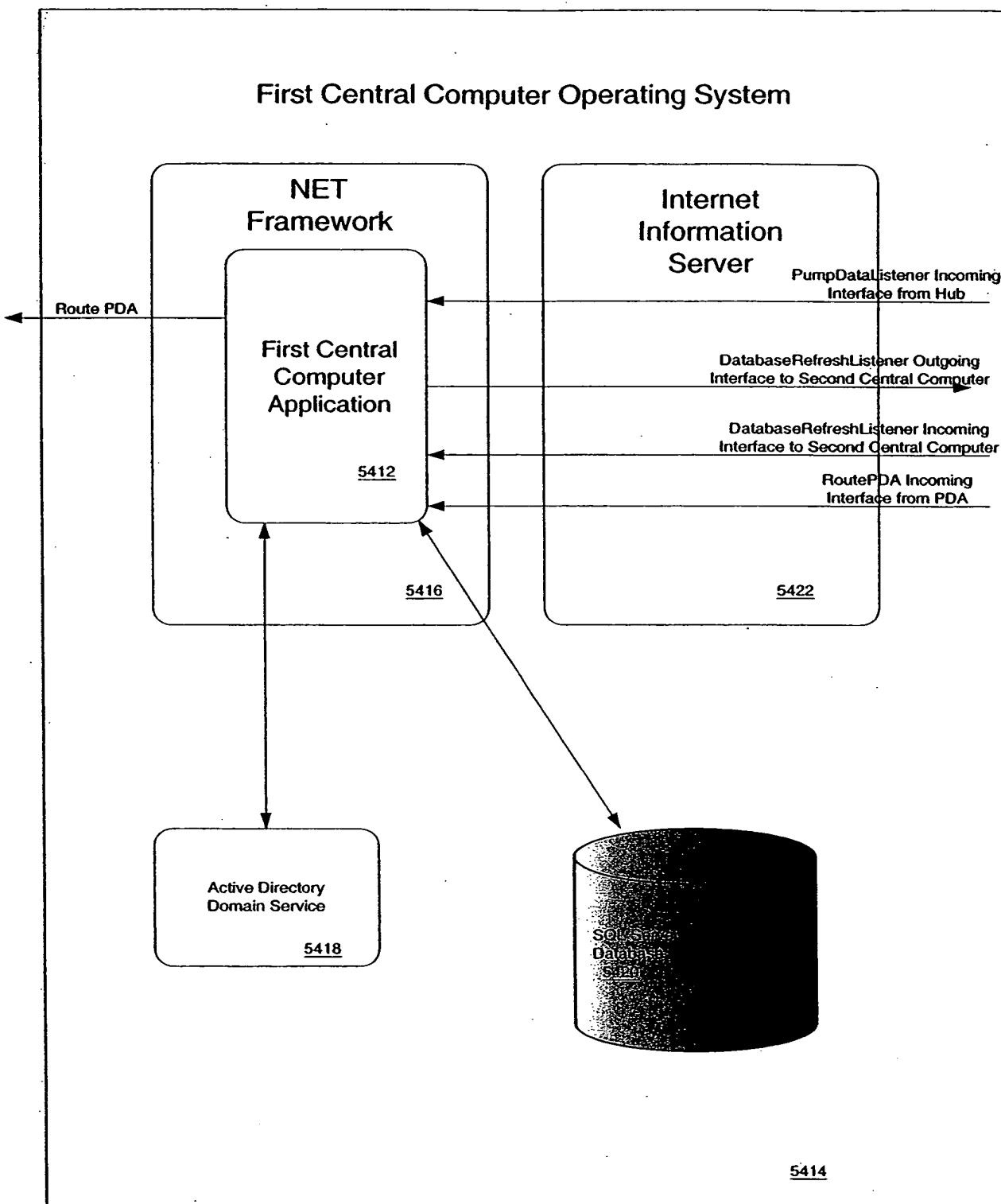


FIG. 53



**FIG. 54**

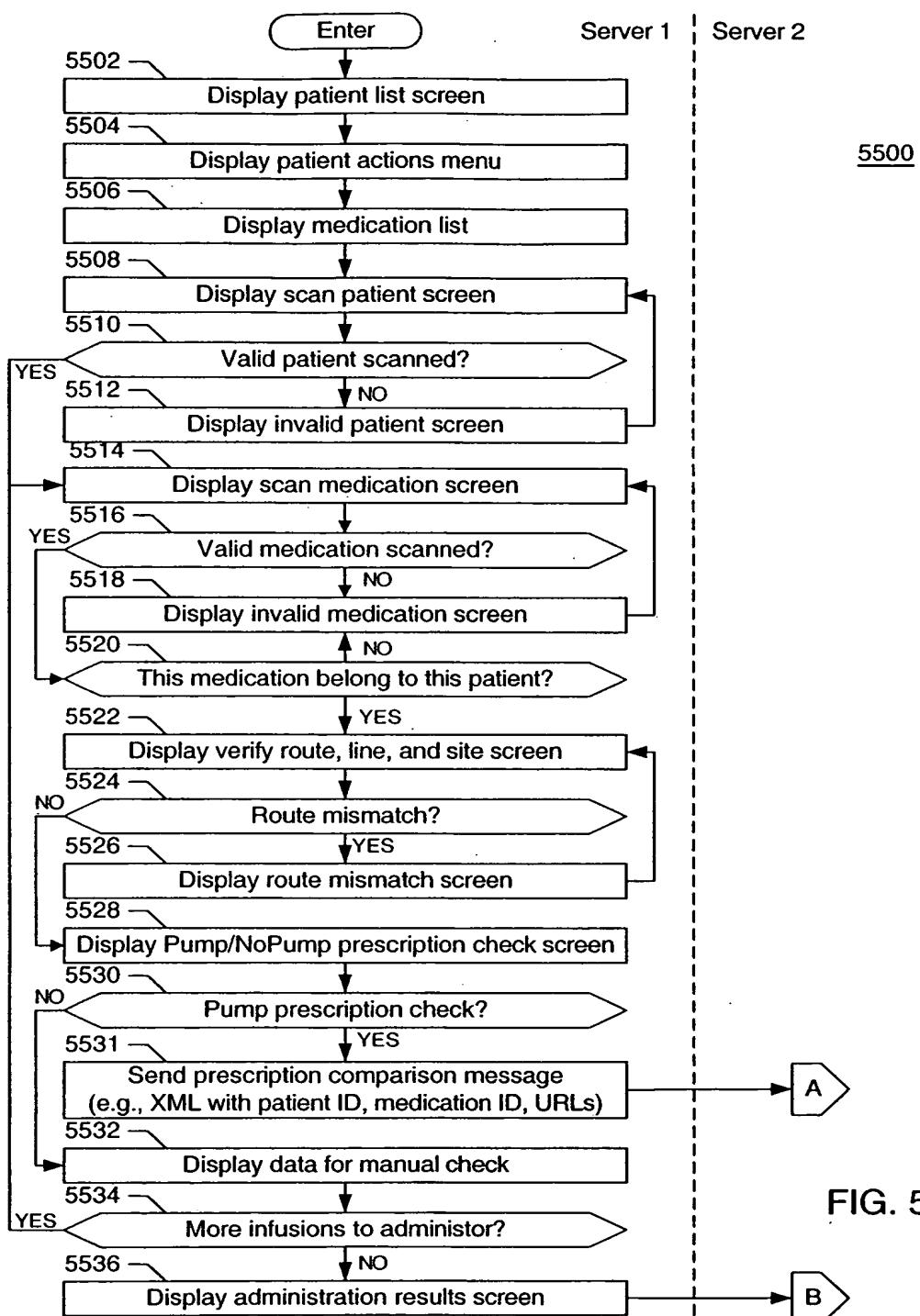


FIG. 55A

FIG. 55B

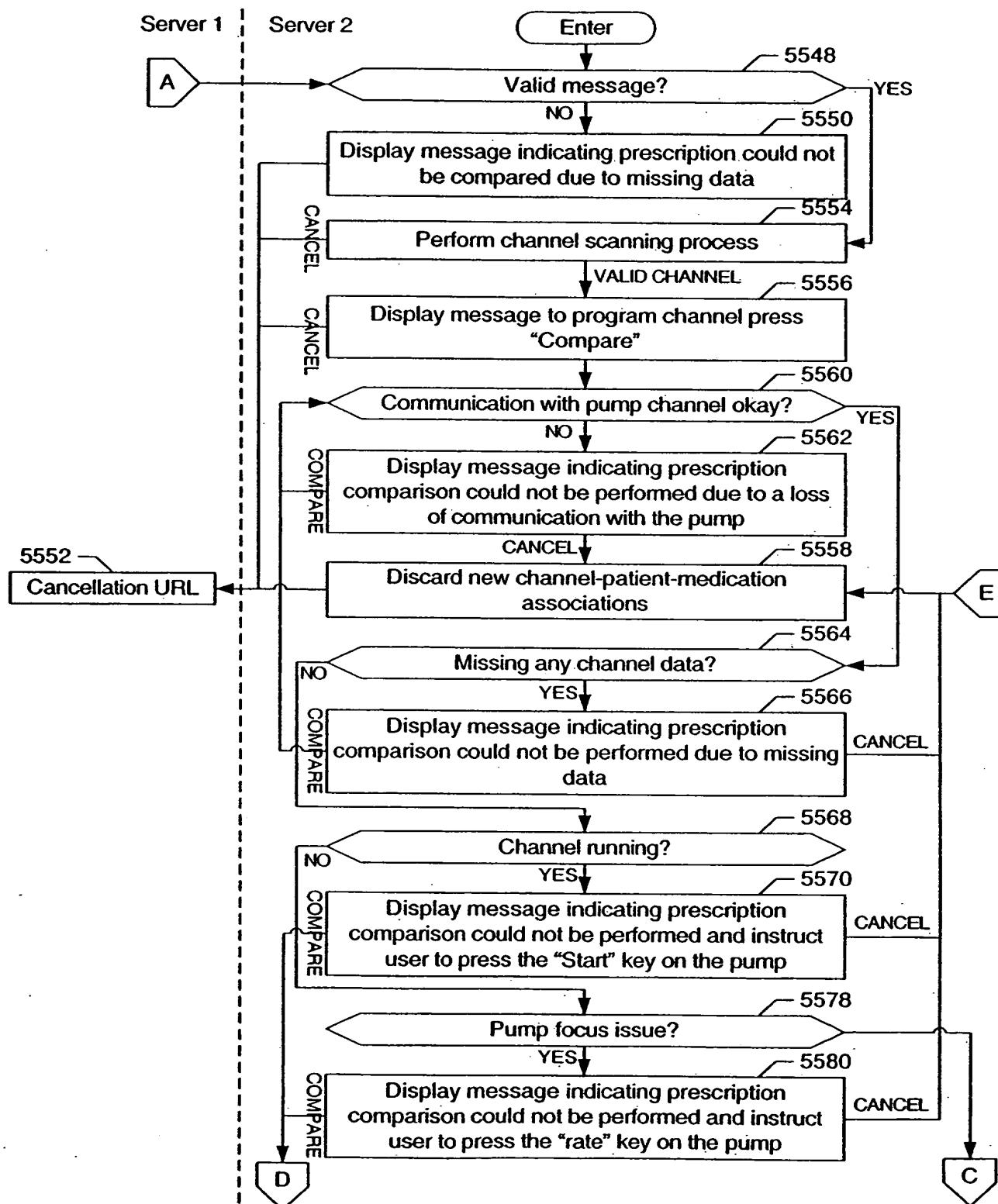
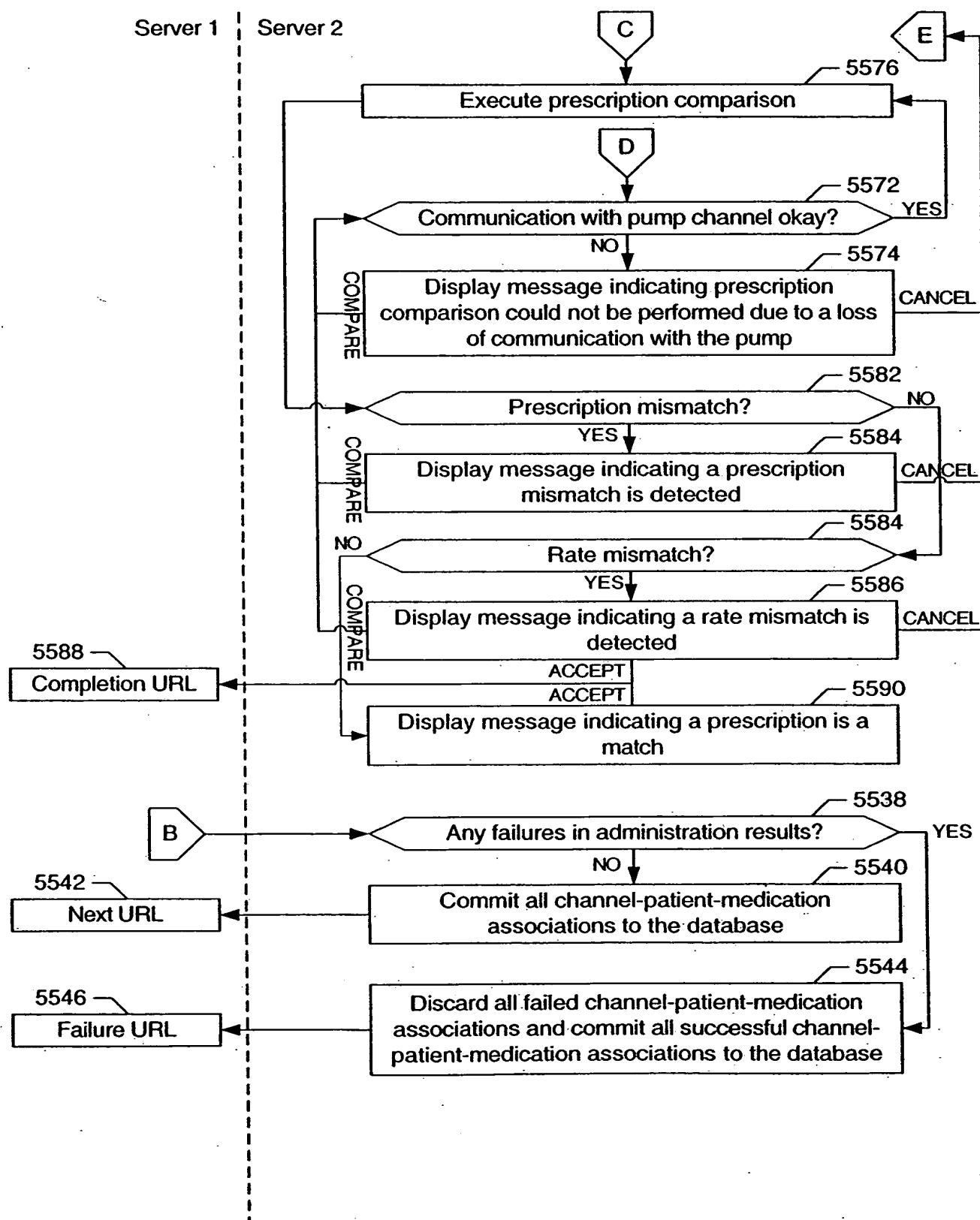


FIG. 55C



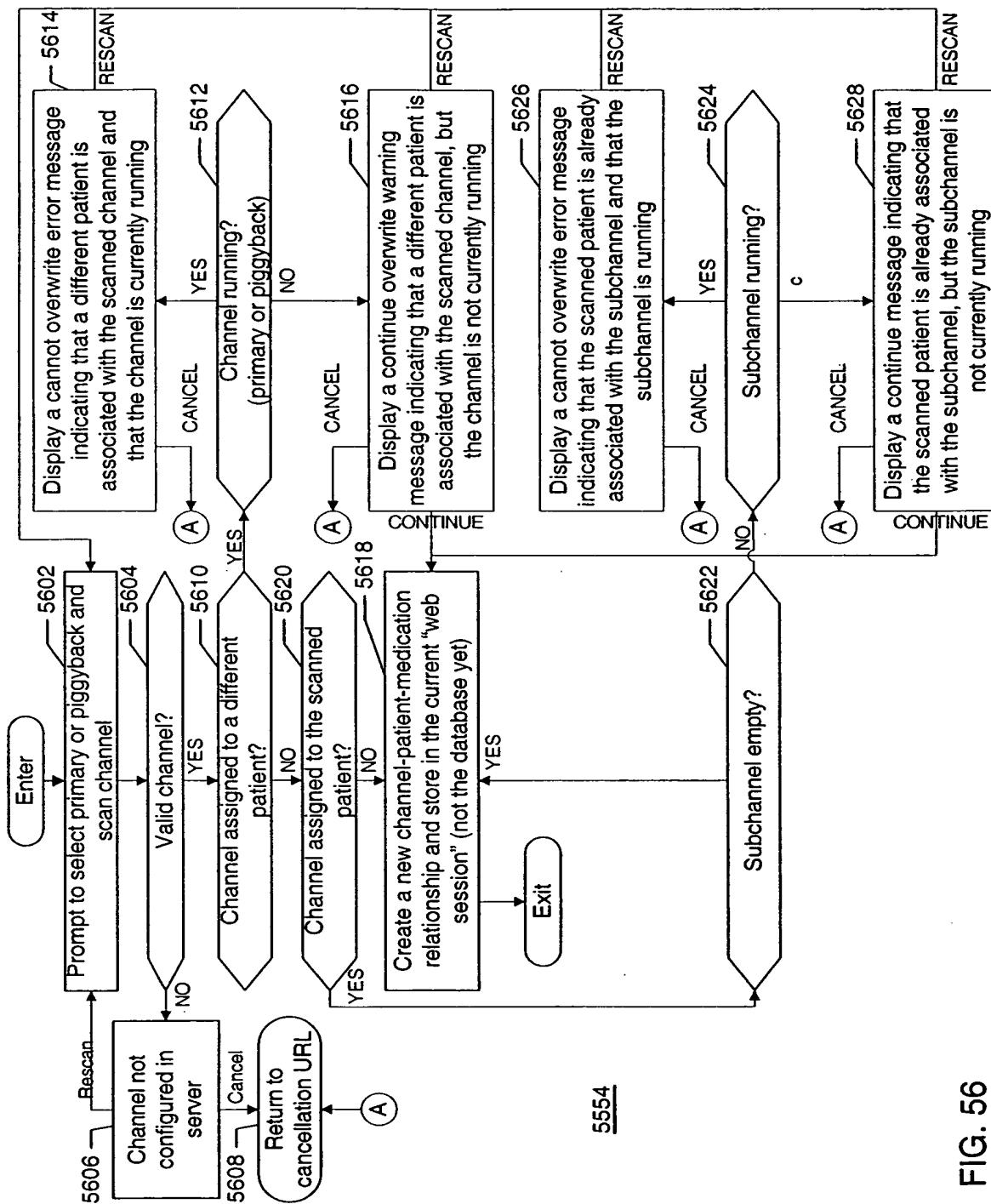


FIG. 56

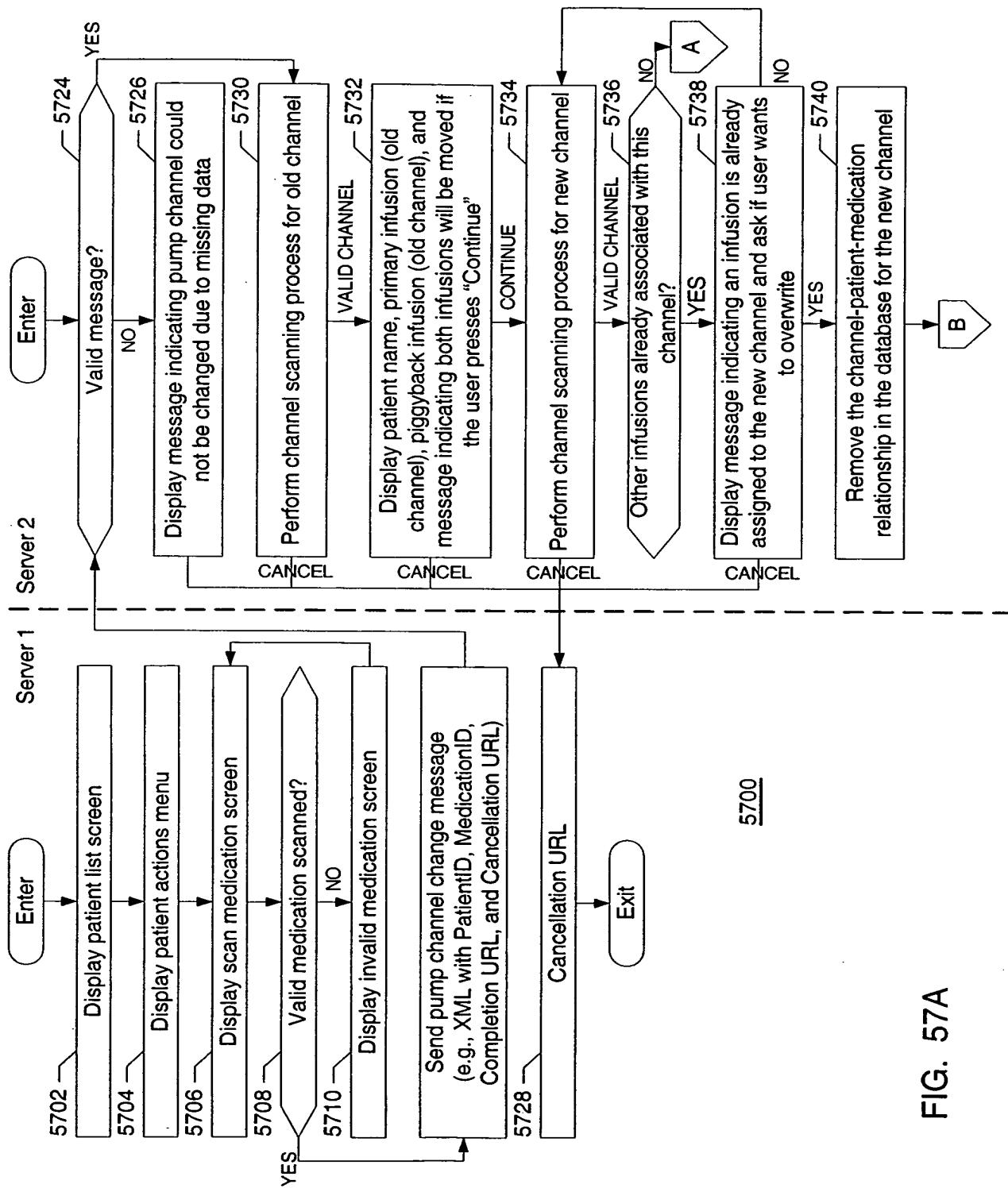


FIG. 57A

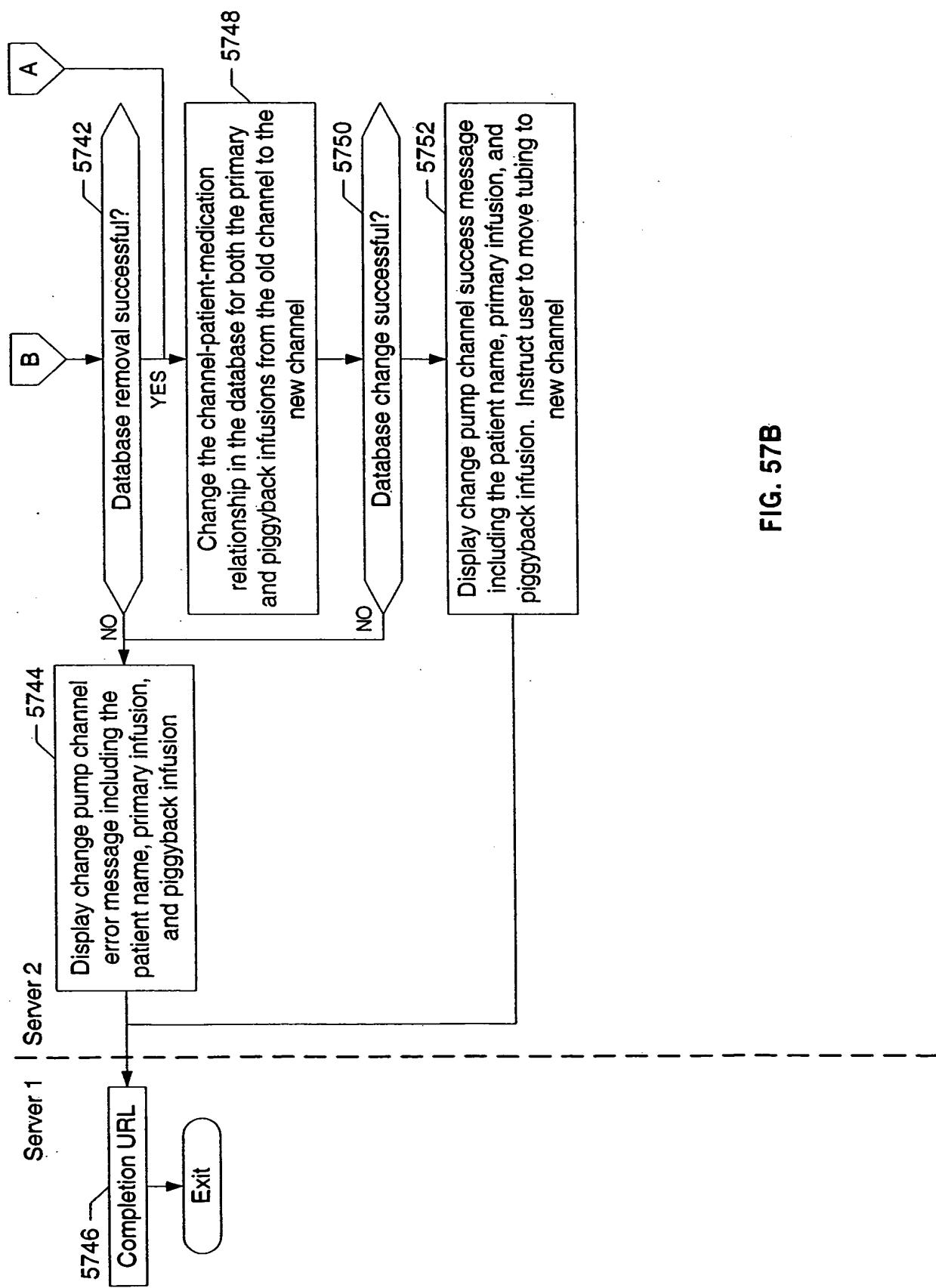


FIG. 57B

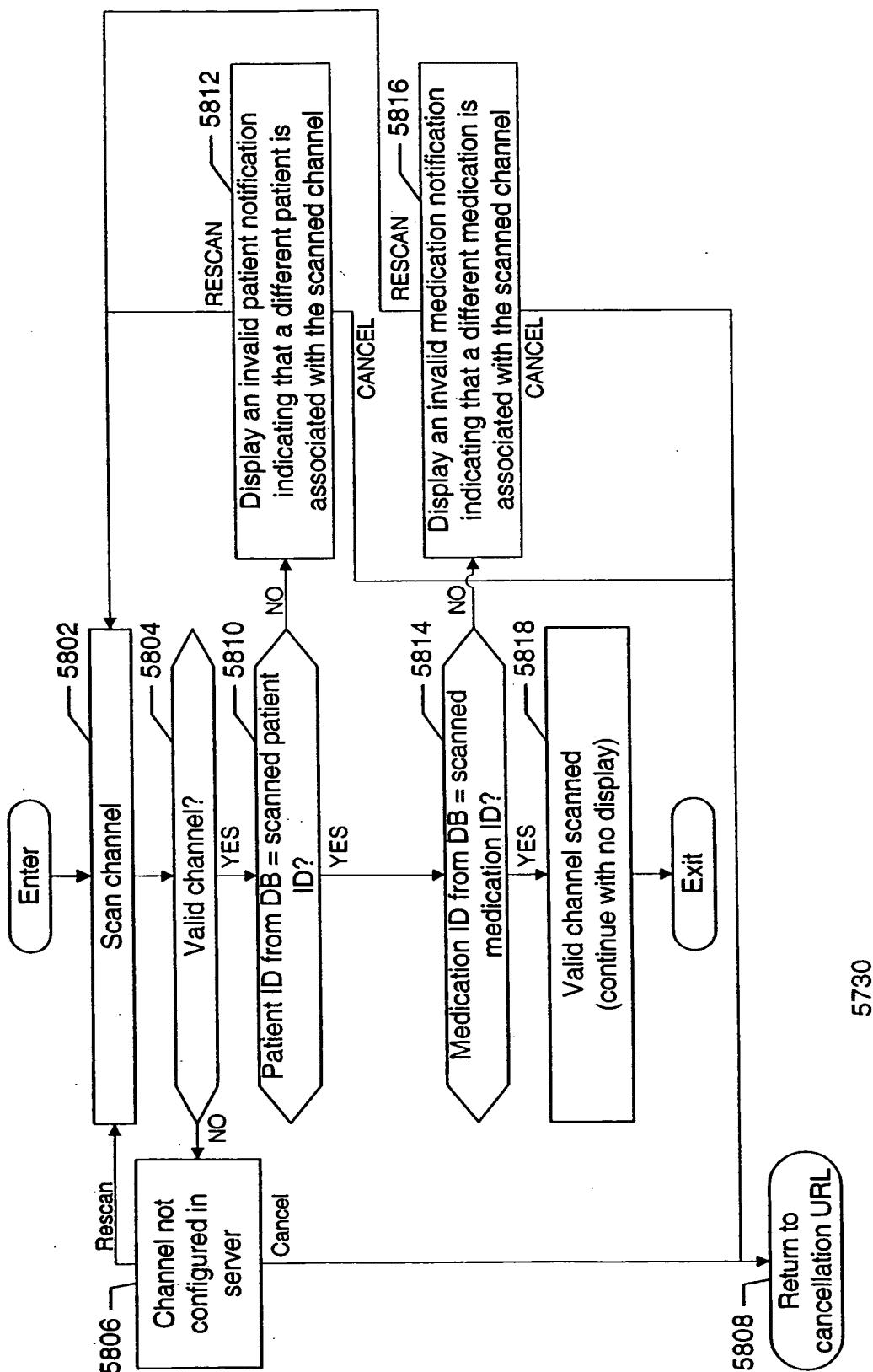


FIG. 58

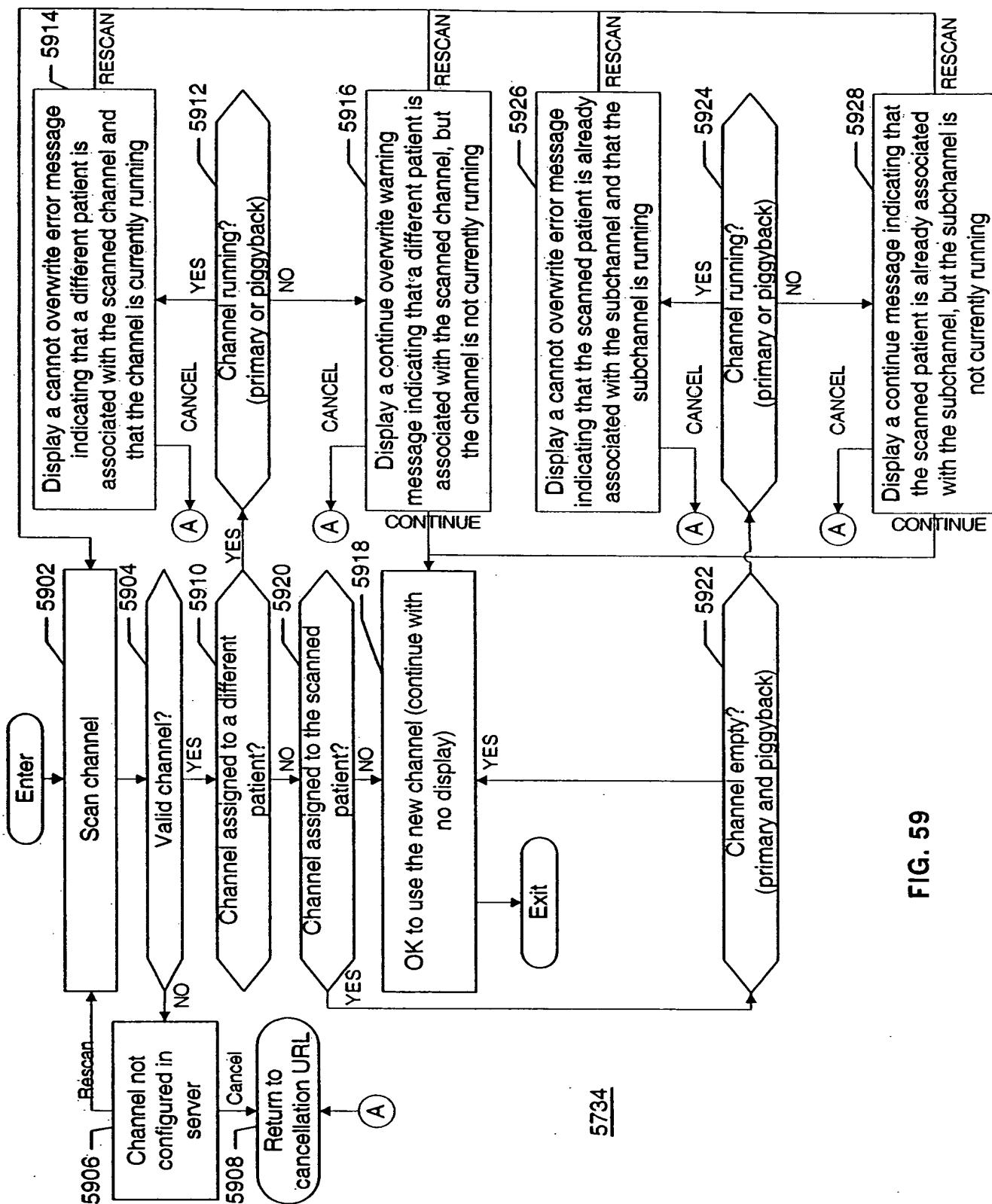


FIG. 59

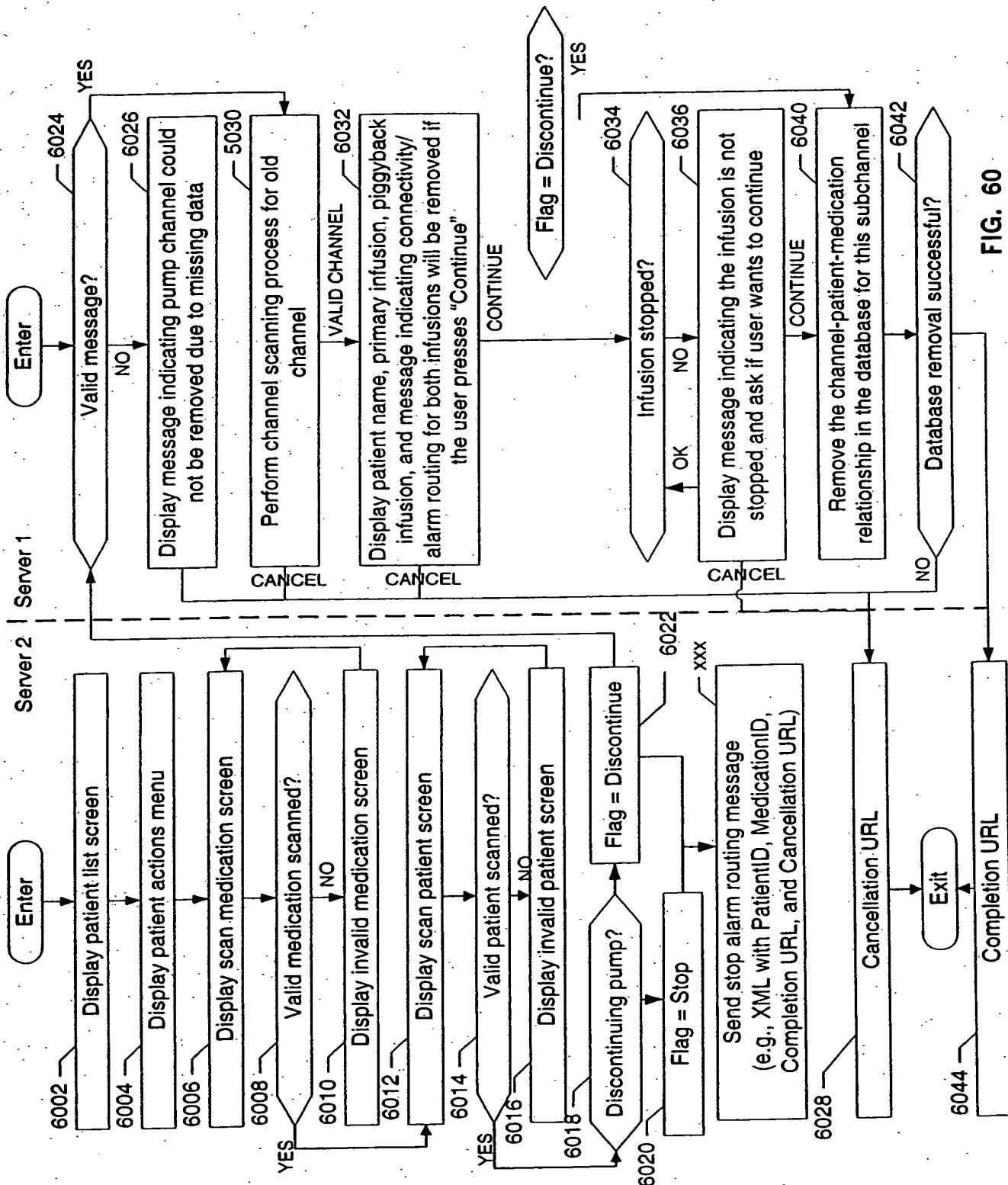


FIG. 60

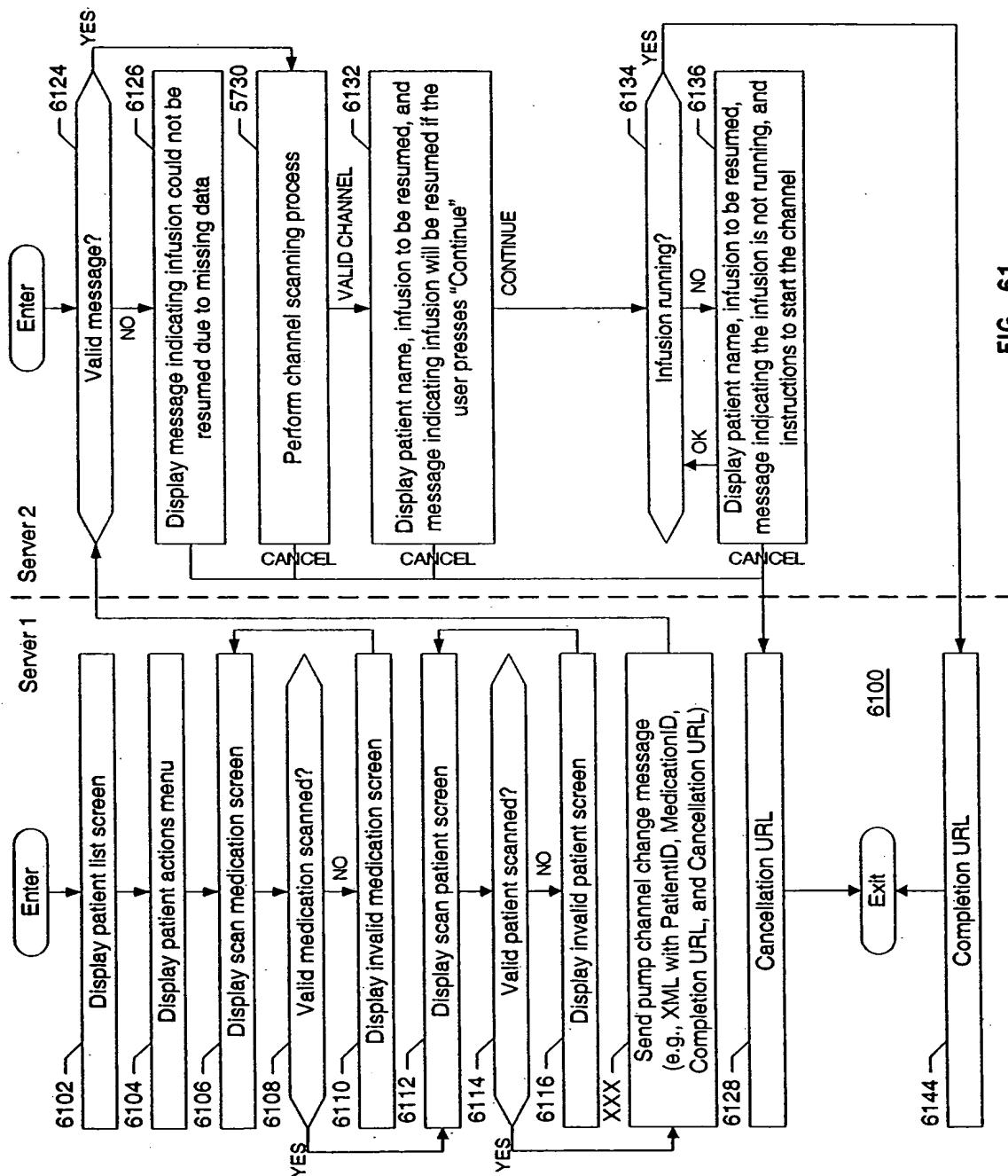


FIG. 61

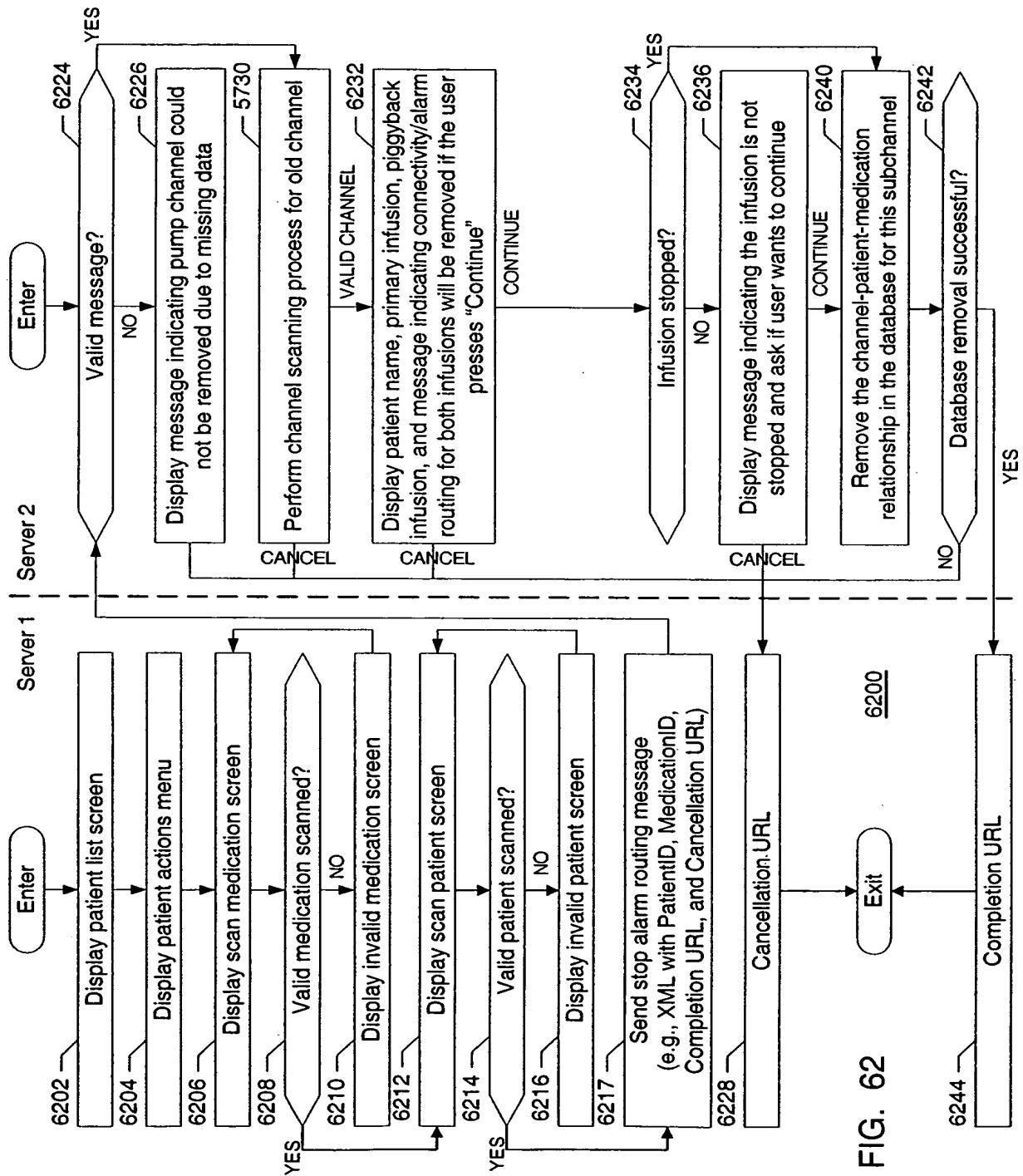
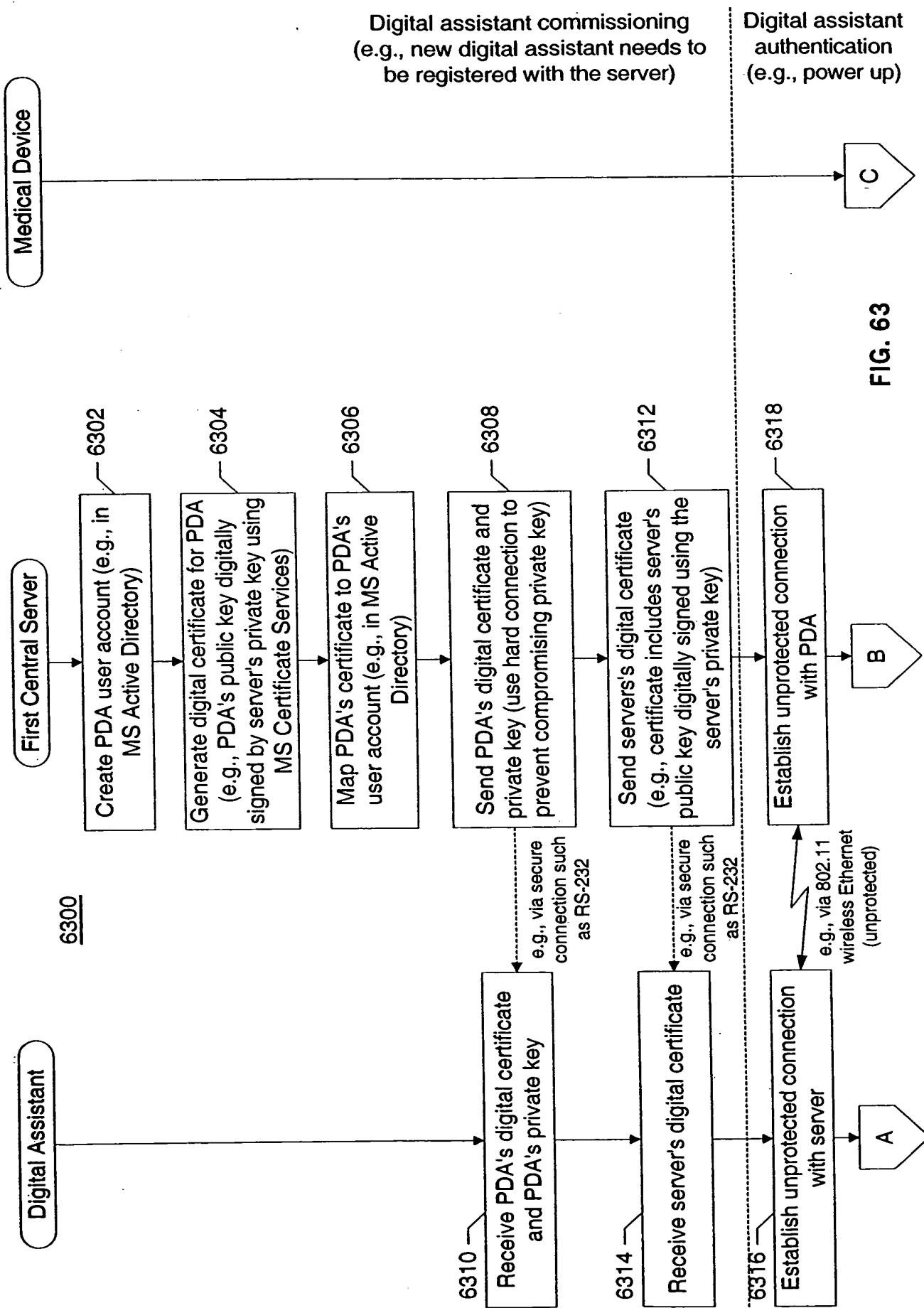


FIG. 62



Digital assistant authentication  
(e.g., power up)

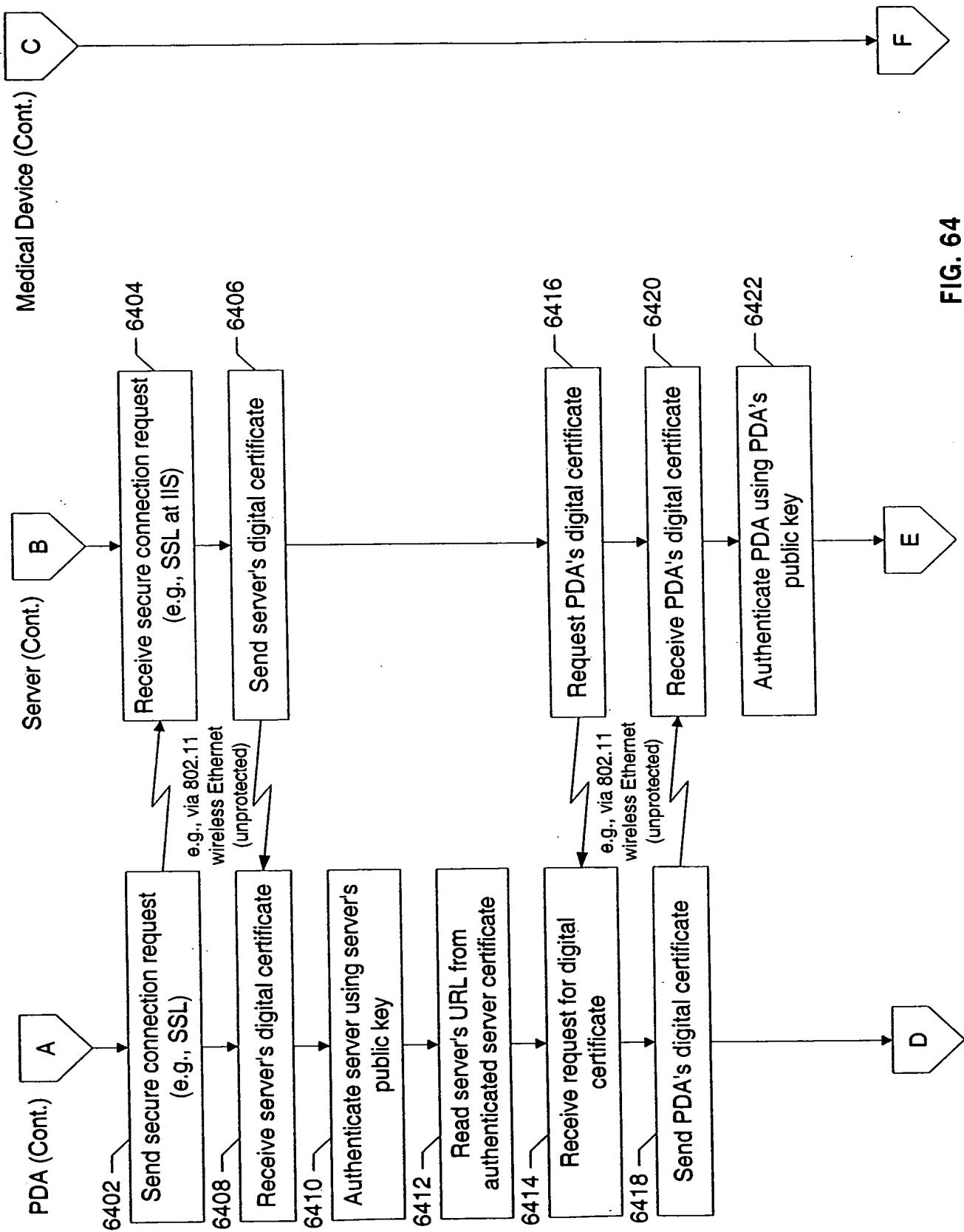
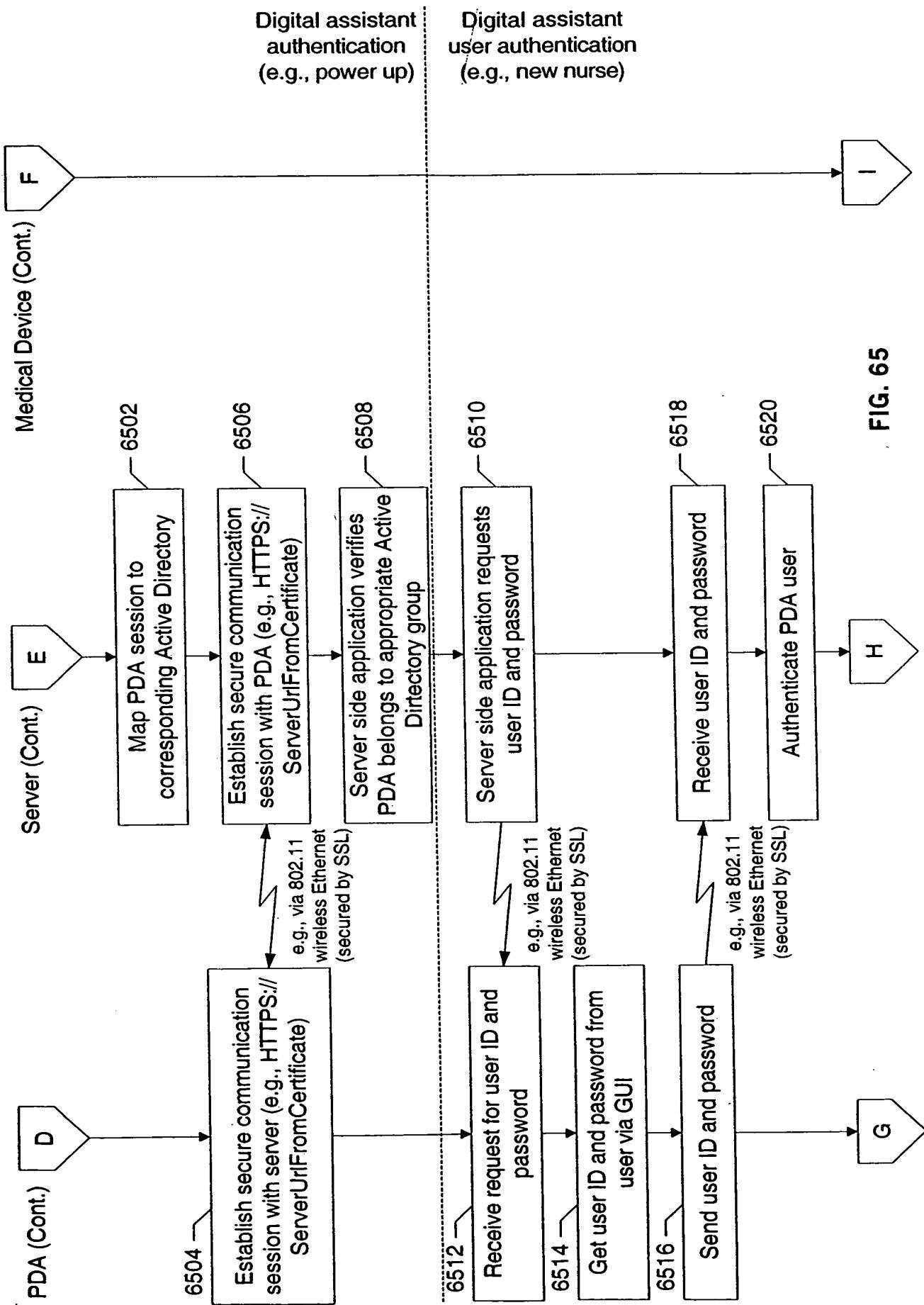


FIG. 64



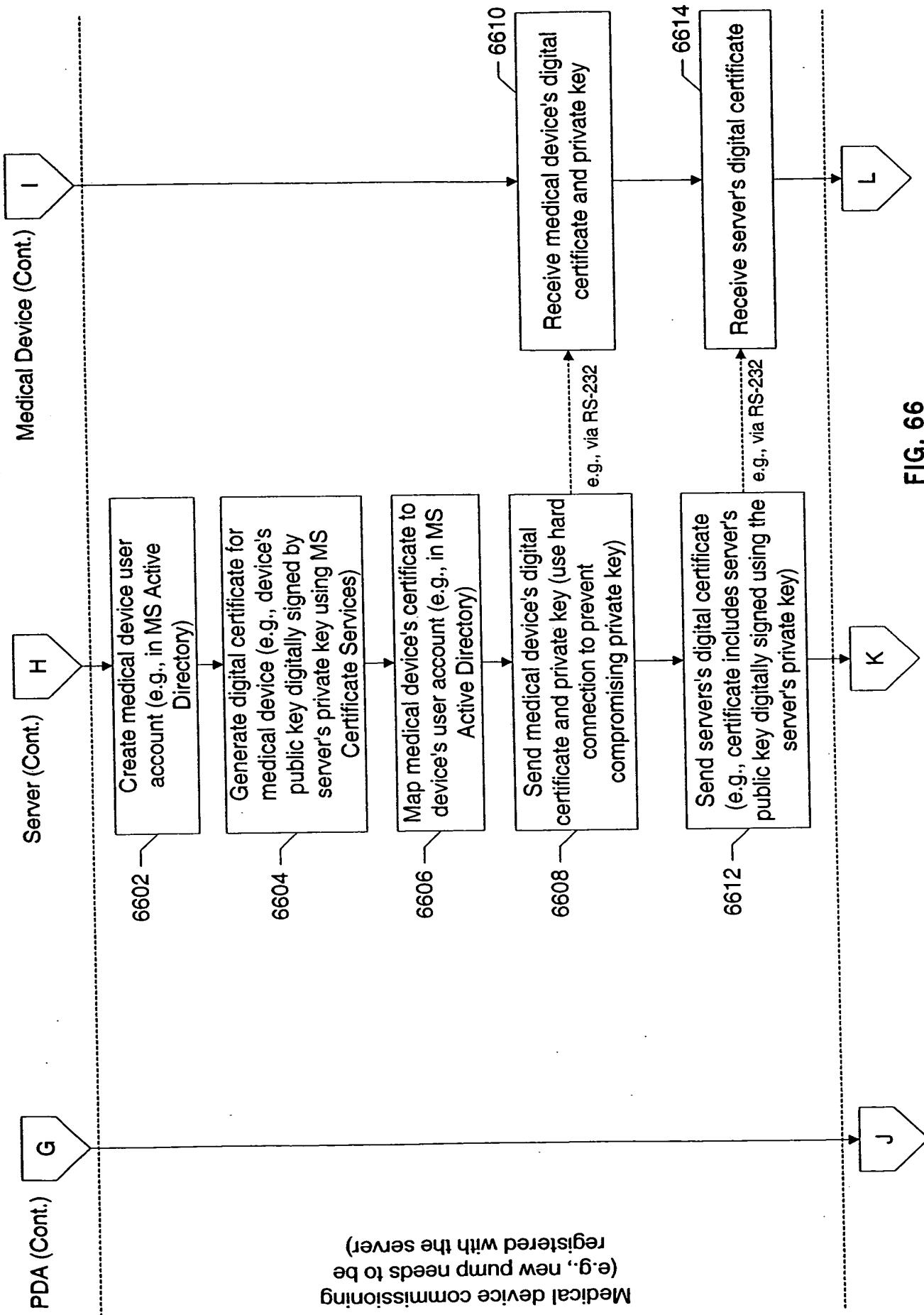


FIG. 66

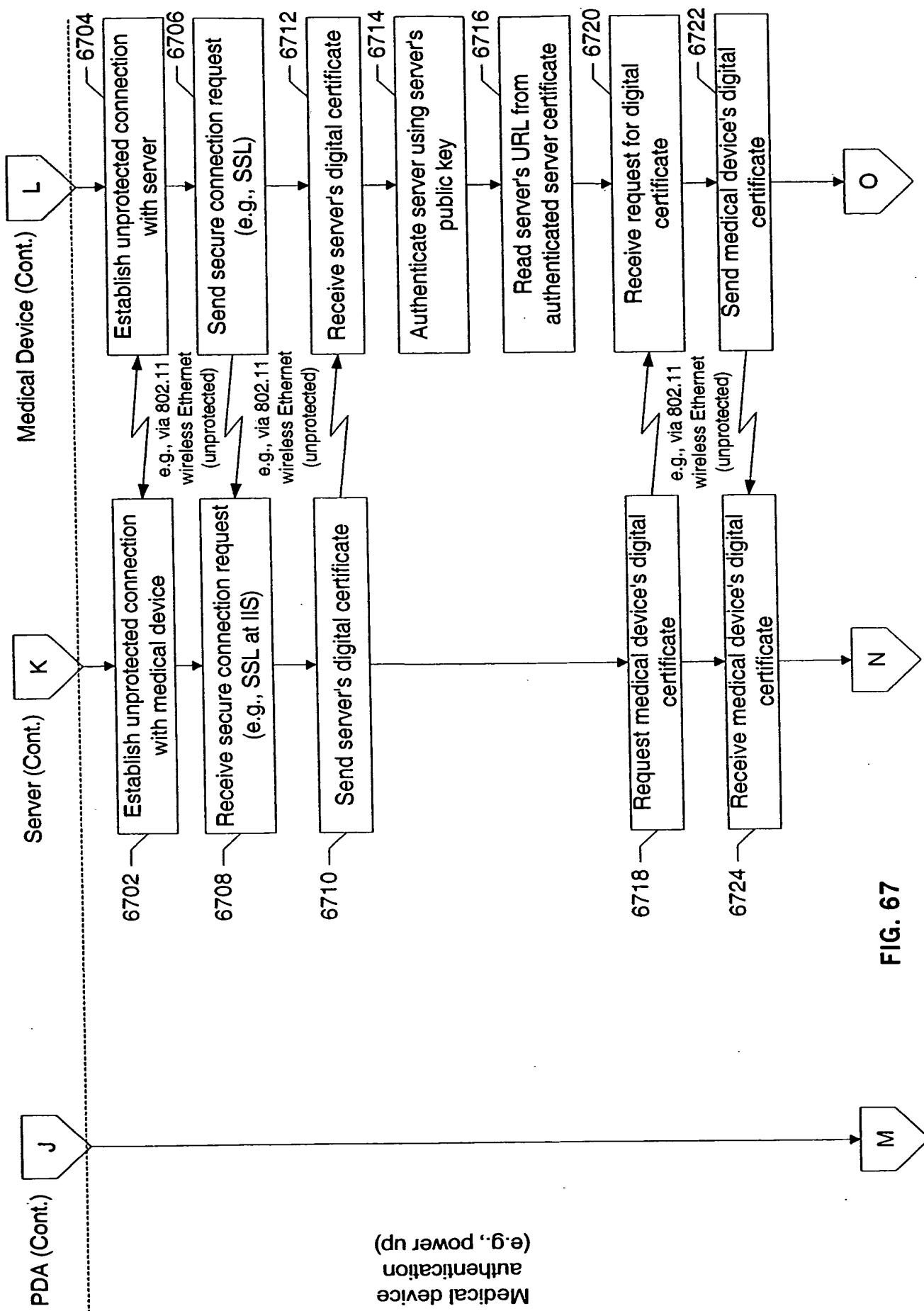


FIG. 67

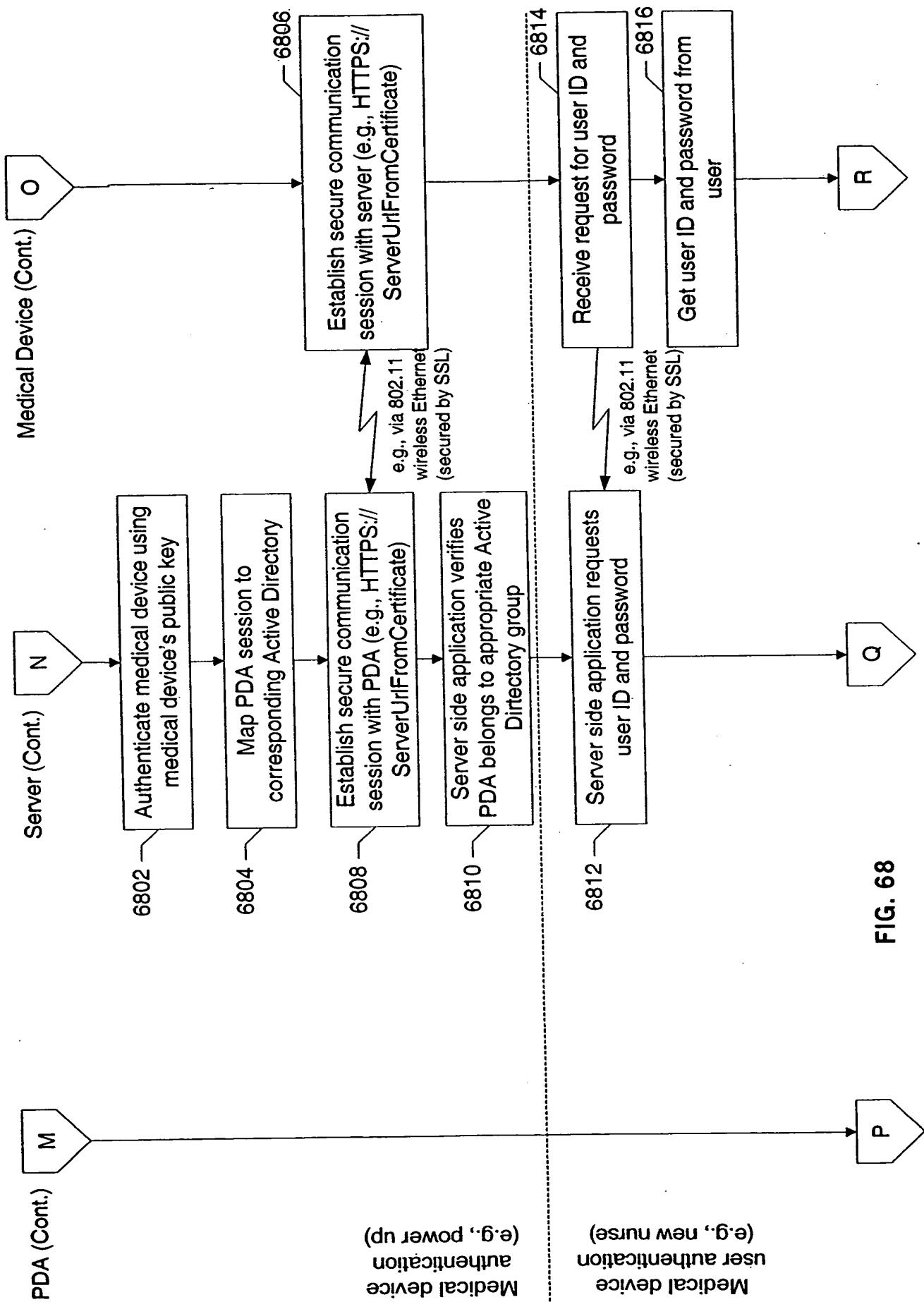
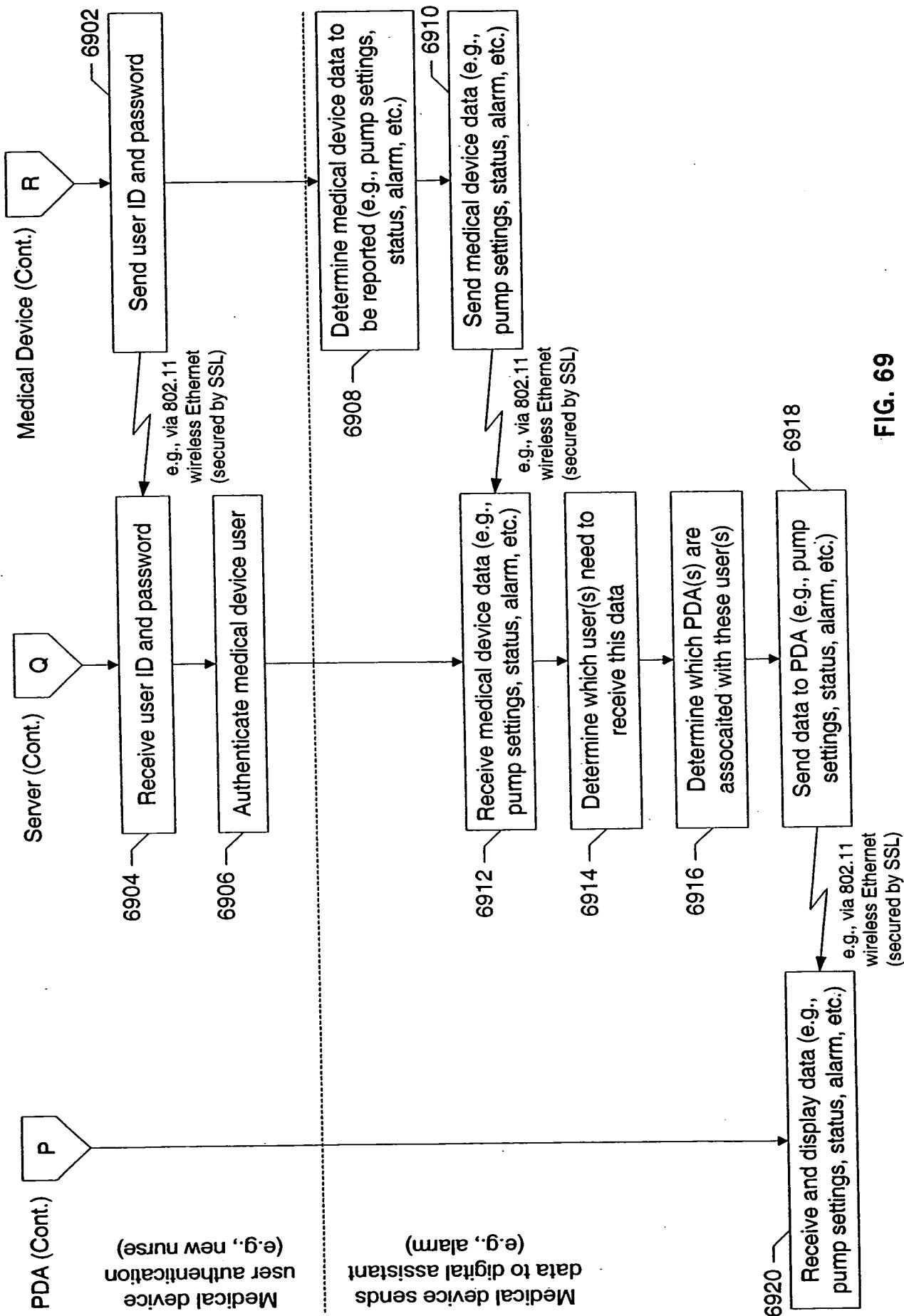


FIG. 68



**FIG. 69**

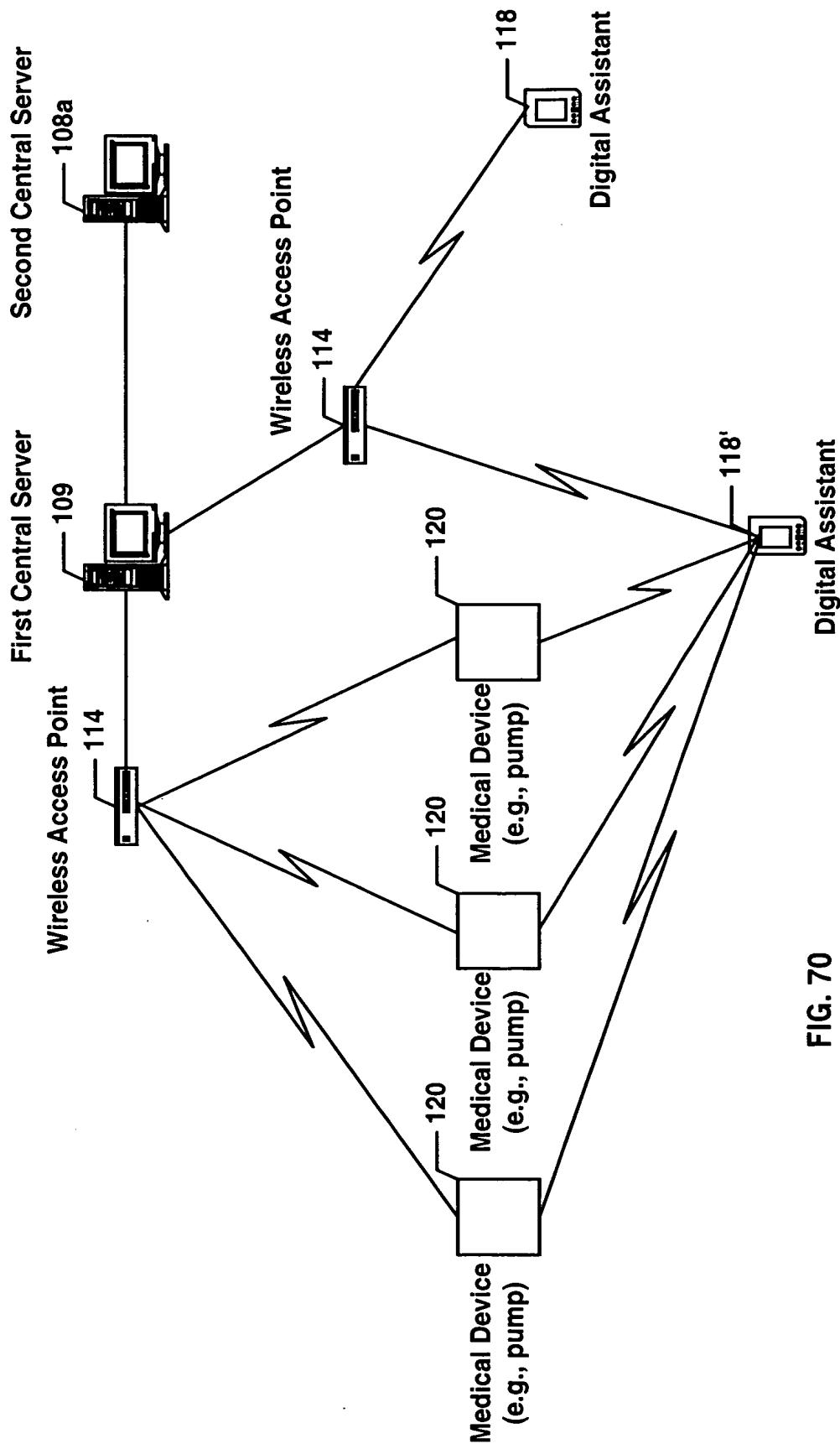
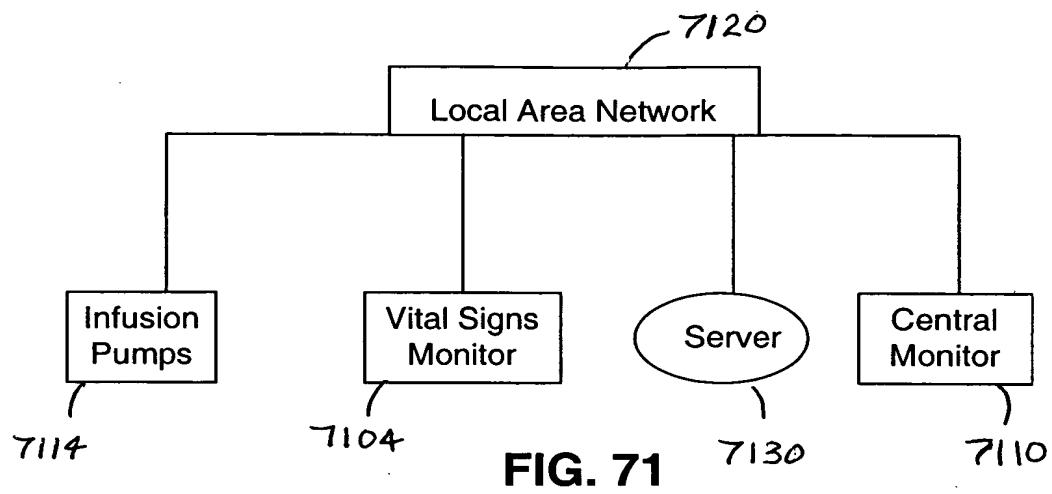


FIG. 70



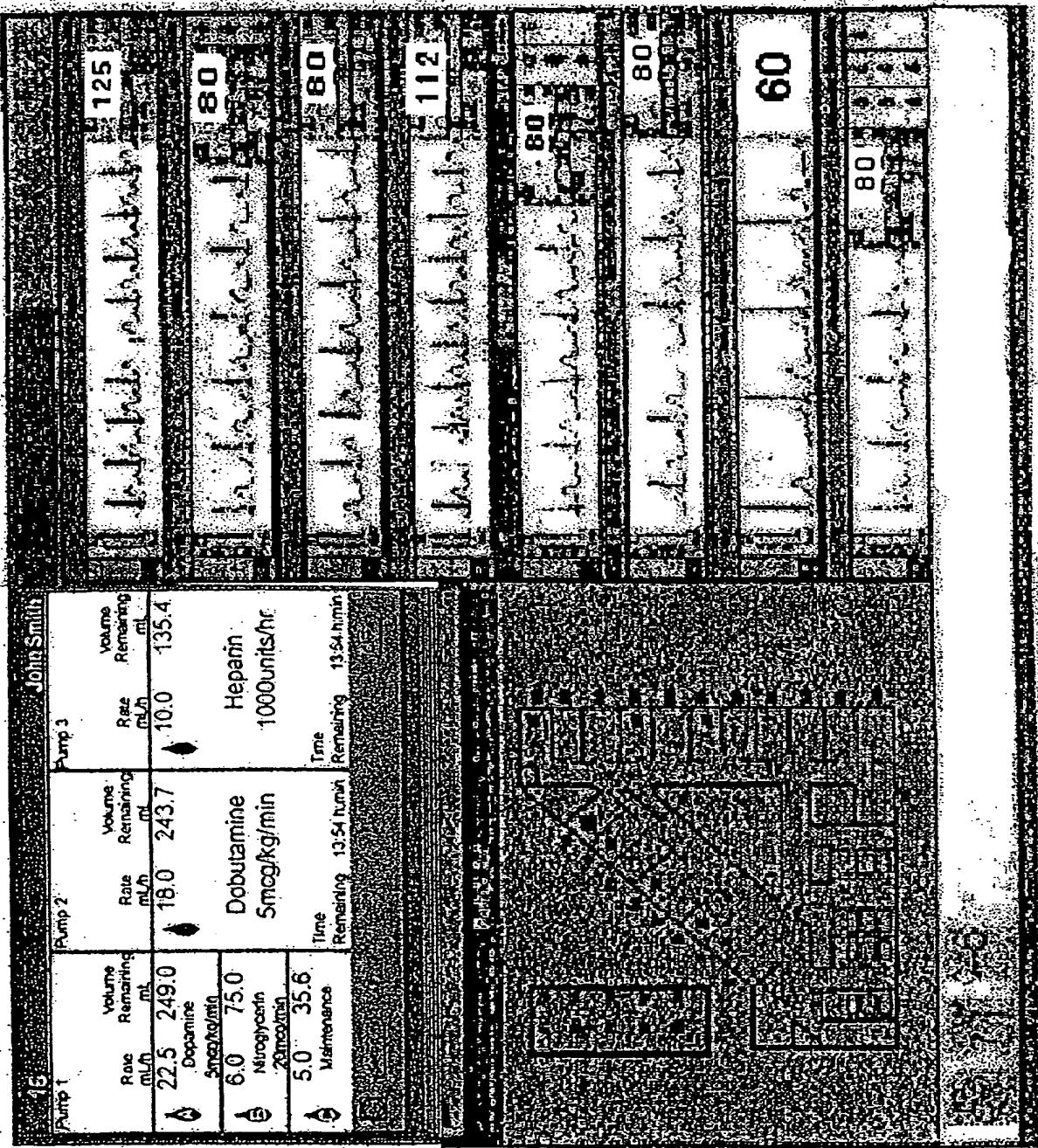


FIG. 72

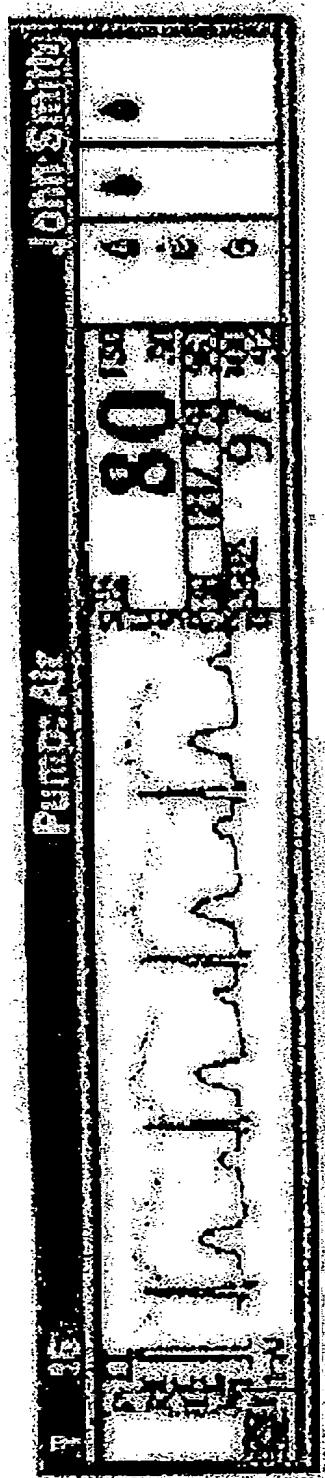


FIG. 73

Pump 3					
Pump 2					
Pump 1					
	Rate ml/h	Volume Remaining ml	Rate ml/h	Volume Remaining ml	Rate ml/h
15	22.5	249.0	18.0	243.7	10.0
16	6.0	75.0	2.6	73.4	1.3
17	5.0	35.6	1.7	33.9	0.8
18	5.0	35.6	1.7	33.9	0.8
19	5.0	35.6	1.7	33.9	0.8
20	5.0	35.6	1.7	33.9	0.8
21	5.0	35.6	1.7	33.9	0.8
22	5.0	35.6	1.7	33.9	0.8
23	5.0	35.6	1.7	33.9	0.8
24	5.0	35.6	1.7	33.9	0.8
25	5.0	35.6	1.7	33.9	0.8
26	5.0	35.6	1.7	33.9	0.8
27	5.0	35.6	1.7	33.9	0.8
28	5.0	35.6	1.7	33.9	0.8
29	5.0	35.6	1.7	33.9	0.8
30	5.0	35.6	1.7	33.9	0.8
31	5.0	35.6	1.7	33.9	0.8
32	5.0	35.6	1.7	33.9	0.8
33	5.0	35.6	1.7	33.9	0.8
34	5.0	35.6	1.7	33.9	0.8
35	5.0	35.6	1.7	33.9	0.8
36	5.0	35.6	1.7	33.9	0.8
37	5.0	35.6	1.7	33.9	0.8
38	5.0	35.6	1.7	33.9	0.8
39	5.0	35.6	1.7	33.9	0.8
40	5.0	35.6	1.7	33.9	0.8
41	5.0	35.6	1.7	33.9	0.8
42	5.0	35.6	1.7	33.9	0.8
43	5.0	35.6	1.7	33.9	0.8
44	5.0	35.6	1.7	33.9	0.8
45	5.0	35.6	1.7	33.9	0.8
46	5.0	35.6	1.7	33.9	0.8
47	5.0	35.6	1.7	33.9	0.8
48	5.0	35.6	1.7	33.9	0.8
49	5.0	35.6	1.7	33.9	0.8
50	5.0	35.6	1.7	33.9	0.8
51	5.0	35.6	1.7	33.9	0.8
52	5.0	35.6	1.7	33.9	0.8
53	5.0	35.6	1.7	33.9	0.8
54	5.0	35.6	1.7	33.9	0.8
55	5.0	35.6	1.7	33.9	0.8
56	5.0	35.6	1.7	33.9	0.8
57	5.0	35.6	1.7	33.9	0.8
58	5.0	35.6	1.7	33.9	0.8
59	5.0	35.6	1.7	33.9	0.8
60	5.0	35.6	1.7	33.9	0.8
61	5.0	35.6	1.7	33.9	0.8
62	5.0	35.6	1.7	33.9	0.8
63	5.0	35.6	1.7	33.9	0.8
64	5.0	35.6	1.7	33.9	0.8
65	5.0	35.6	1.7	33.9	0.8
66	5.0	35.6	1.7	33.9	0.8
67	5.0	35.6	1.7	33.9	0.8
68	5.0	35.6	1.7	33.9	0.8
69	5.0	35.6	1.7	33.9	0.8
70	5.0	35.6	1.7	33.9	0.8
71	5.0	35.6	1.7	33.9	0.8
72	5.0	35.6	1.7	33.9	0.8
73	5.0	35.6	1.7	33.9	0.8
74	5.0	35.6	1.7	33.9	0.8
75	5.0	35.6	1.7	33.9	0.8
76	5.0	35.6	1.7	33.9	0.8
77	5.0	35.6	1.7	33.9	0.8
78	5.0	35.6	1.7	33.9	0.8
79	5.0	35.6	1.7	33.9	0.8
80	5.0	35.6	1.7	33.9	0.8
81	5.0	35.6	1.7	33.9	0.8
82	5.0	35.6	1.7	33.9	0.8
83	5.0	35.6	1.7	33.9	0.8
84	5.0	35.6	1.7	33.9	0.8
85	5.0	35.6	1.7	33.9	0.8
86	5.0	35.6	1.7	33.9	0.8
87	5.0	35.6	1.7	33.9	0.8
88	5.0	35.6	1.7	33.9	0.8
89	5.0	35.6	1.7	33.9	0.8
90	5.0	35.6	1.7	33.9	0.8
91	5.0	35.6	1.7	33.9	0.8
92	5.0	35.6	1.7	33.9	0.8
93	5.0	35.6	1.7	33.9	0.8
94	5.0	35.6	1.7	33.9	0.8
95	5.0	35.6	1.7	33.9	0.8
96	5.0	35.6	1.7	33.9	0.8
97	5.0	35.6	1.7	33.9	0.8
98	5.0	35.6	1.7	33.9	0.8
99	5.0	35.6	1.7	33.9	0.8
100	5.0	35.6	1.7	33.9	0.8
101	5.0	35.6	1.7	33.9	0.8
102	5.0	35.6	1.7	33.9	0.8
103	5.0	35.6	1.7	33.9	0.8
104	5.0	35.6	1.7	33.9	0.8
105	5.0	35.6	1.7	33.9	0.8
106	5.0	35.6	1.7	33.9	0.8
107	5.0	35.6	1.7	33.9	0.8
108	5.0	35.6	1.7	33.9	0.8
109	5.0	35.6	1.7	33.9	0.8
110	5.0	35.6	1.7	33.9	0.8
111	5.0	35.6	1.7	33.9	0.8
112	5.0	35.6	1.7	33.9	0.8
113	5.0	35.6	1.7	33.9	0.8
114	5.0	35.6	1.7	33.9	0.8
115	5.0	35.6	1.7	33.9	0.8
116	5.0	35.6	1.7	33.9	0.8
117	5.0	35.6	1.7	33.9	0.8
118	5.0	35.6	1.7	33.9	0.8
119	5.0	35.6	1.7	33.9	0.8
120	5.0	35.6	1.7	33.9	0.8
121	5.0	35.6	1.7	33.9	0.8
122	5.0	35.6	1.7	33.9	0.8
123	5.0	35.6	1.7	33.9	0.8
124	5.0	35.6	1.7	33.9	0.8
125	5.0	35.6	1.7	33.9	0.8
126	5.0	35.6	1.7	33.9	0.8
127	5.0	35.6	1.7	33.9	0.8
128	5.0	35.6	1.7	33.9	0.8
129	5.0	35.6	1.7	33.9	0.8
130	5.0	35.6	1.7	33.9	0.8
131	5.0	35.6	1.7	33.9	0.8
132	5.0	35.6	1.7	33.9	0.8
133	5.0	35.6	1.7	33.9	0.8
134	5.0	35.6	1.7	33.9	0.8
135	5.0	35.6	1.7	33.9	0.8
136	5.0	35.6	1.7	33.9	0.8
137	5.0	35.6	1.7	33.9	0.8
138	5.0	35.6	1.7	33.9	0.8
139	5.0	35.6	1.7	33.9	0.8
140	5.0	35.6	1.7	33.9	0.8
141	5.0	35.6	1.7	33.9	0.8
142	5.0	35.6	1.7	33.9	0.8
143	5.0	35.6	1.7	33.9	0.8
144	5.0	35.6	1.7	33.9	0.8
145	5.0	35.6	1.7	33.9	0.8
146	5.0	35.6	1.7	33.9	0.8
147	5.0	35.6	1.7	33.9	0.8
148	5.0	35.6	1.7	33.9	0.8
149	5.0	35.6	1.7	33.9	0.8
150	5.0	35.6	1.7	33.9	0.8
151	5.0	35.6	1.7	33.9	0.8
152	5.0	35.6	1.7	33.9	0.8
153	5.0	35.6	1.7	33.9	0.8
154	5.0	35.6	1.7	33.9	0.8
155	5.0	35.6	1.7	33.9	0.8
156	5.0	35.6	1.7	33.9	0.8
157	5.0	35.6	1.7	33.9	0.8
158	5.0	35.6	1.7	33.9	0.8
159	5.0	35.6	1.7	33.9	0.8
160	5.0	35.6	1.7	33.9	0.8
161	5.0	35.6	1.7	33.9	0.8
162	5.0	35.6	1.7	33.9	0.8
163	5.0	35.6	1.7	33.9	0.8
164	5.0	35.6	1.7	33.9	0.8
165	5.0	35.6	1.7	33.9	0.8
166	5.0	35.6	1.7	33.9	0.8
167	5.0	35.6	1.7	33.9	0.8
168	5.0	35.6	1.7	33.9	0.8
169	5.0	35.6	1.7	33.9	0.8
170	5.0	35.6	1.7	33.9	0.8
171	5.0	35.6	1.7	33.9	0.8
172	5.0	35.6	1.7	33.9	0.8
173	5.0	35.6	1.7	33.9	0.8
174	5.0	35.6	1.7	33.9	0.8
175	5.0	35.6	1.7	33.9	0.8
176	5.0	35.6	1.7	33.9	0.8
177	5.0	35.6	1.7	33.9	0.8
178	5.0	35.6	1.7	33.9	0.8
179	5.0	35.6	1.7	33.9	0.8
180	5.0	35.6	1.7	33.9	0.8
181	5.0	35.6	1.7	33.9	0.8
182	5.0	35.6	1.7	33.9	0.8
183	5.0	35.6	1.7	33.9	0.8
184	5.0	35.6	1.7	33.9	0.8
185	5.0	35.6	1.7	33.9	0.8
186	5.0	35.6	1.7	33.9	0.8
187	5.0	35.6	1.7	33.9	0.8
188	5.0	35.6	1.7	33.9	0.8
189	5.0	35.6	1.7	33.9	0.8
190	5.0	35.6	1.7	33.9	0.8
191	5.0	35.6	1.7	33.9	0.8
192	5.0	35.6	1.7	33.9	0.8
193	5.0	35.6	1.7	33.9	0.8
194	5.0	35.6	1.7	33.9	0.8
195	5.0	35.6	1.7	33.9	0.8
196	5.0	35.6	1.7	33.9	0.8
197	5.0	35.6	1.7	33.9	0.8
198	5.0	35.6	1.7	33.9	0.8
199	5.0	35.6	1.7	33.9	0.8
200	5.0	35.6	1.7	33.9	0.8
201	5.0	35.6	1.7	33.9	0.8
202	5.0	35.6	1.7	33.9	0.8
203	5.0	35.6	1.7	33.9	0.8
204	5.0	35.6	1.7	33.9	0.8
205	5.0	35.6	1.7	33.9	0.8
206	5.0	35.6	1.7	33.9	0.8
207	5.0	35.6	1.7	33.9	0.8
208	5.0	35.6	1.7	33.9	0.8
209	5.0	35.6	1.7	33.9	0.8
210	5.0	35.6	1.7	33.9	0.8
211	5.0	35.6	1.7	33.9	0.8
212	5.0	35.6	1.7	33.9	0.8
213	5.0	35.6	1.7	33.9	0.8
214	5.0	35.6	1.7	33.9	0.8
215	5.0	35.6	1.7	33.9	0.8
216					

FIG. 75

### Near Miss Summary

#### All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

	Total Administrations	Total Wrong	Near Miss						Med Error
			# Wrong Drug	# Wrong Patient	# Wrong Time	# Wrong Route	# Wrong Dose	# Wrong Dose	
All Units	Total	198	41	25	77	6	20	29	
	Infusion	350	66	20	0	20	6	20	0
	Non-Infusion	400	107	21	0	57	0	0	29
BPCS Demo Unit	Total	450	106	24	12	48	3	12	7
	Infusion	200	36	11	0	10	3	12	0
	Non-Infusion	250	68	13	0	38	0	0	7
BPCS Demo Unit2	Total	300	92	17	13	29	3	8	22
	Infusion	150	30	9	0	10	3	8	0
	Non-Infusion	150	62	8	0	19	0	0	22

0 Not sure how we can display this as the total Patient error scans may not split by drug

**FIG. 76**

### Near Miss Unit Summary

#### BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

	Total Administrations	Total Wrong	Near Miss						Med Error
			# Wrong Drug	# Wrong Patient	# Wrong Time	# Wrong Route	# Wrong Dose	# Wrong Dose	
Total	450	106	24	12	48	3	12	7	
Infusion	200	36	11	0	10	3	12	0	
Non-Infusion	250	68	13	0	38	0	0	7	

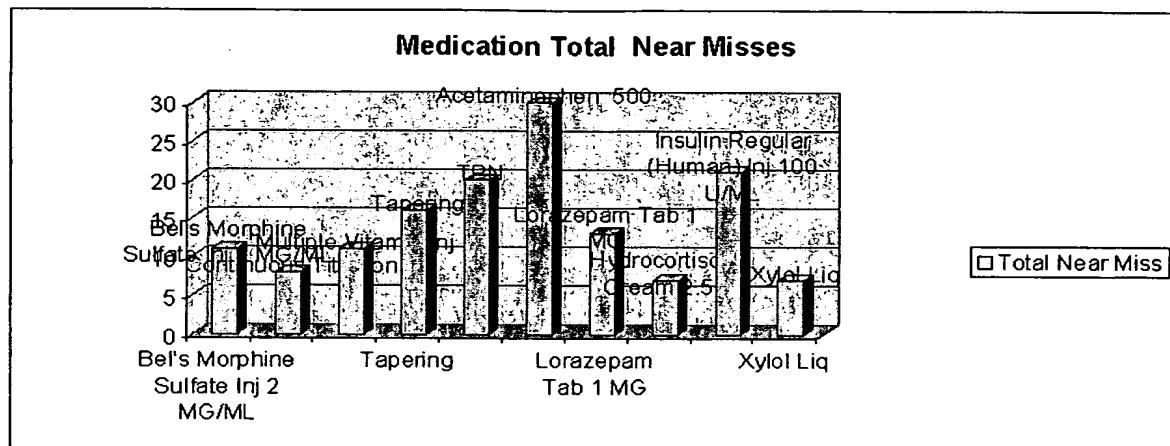
0 Not sure how we can display this as the total Patient error scans may not split by drug

**FIG. 77**

**Near Miss Summary by Med**

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 78**

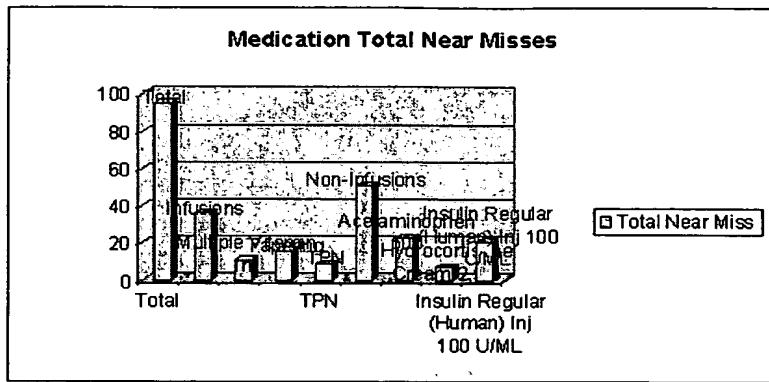
	Total Administrations	Total Wrong	Near Miss				Med Error #Wrong Dose
			# Wrong Drug	# Wrong Time	# Wrong Route	# Wrong Dose	
All Units	Total	1750	173	41	77	6	20
	Infusions	350	66	20	20	6	20
	Bel's Morphine Sulfate Inj 2 MG/ML	25	14	4	4	1	2
	Continuous Titration	70	18	3	2	0	3
	Multiple Vitamin Inj	95	11	1	3	2	5
	Tapering	60	16	7	3	0	6
	TPN	100	20	5	8	3	4
	Non-Infusions	400	107	21	57	0	0
	Acetaminophen 500	125	48	5	25	0	0
	Lorazepam Tab 1 MG	100	19	3	10	0	0
	Hydrocortisone Cream 2.5%	50	9	4	3	0	0
	Insulin Regular (Human) Inj 100 U/ML	100	21	6	15	0	0
	XyloLiq	25	10	3	4	0	0
BPCS Demo Unit	Total	450	102	24	48	3	20
	Infusions	200	36	11	10	3	12
	Multiple Vitamin Inj	95	11	1	3	2	5
	Tapering	60	16	7	3	0	6
	TPN	45	9	3	4	1	1
	Non-Infusions	250	58	13	38	0	0
	Acetaminophen 500	100	28	3	20	0	0
	Hydrocortisone Cream 2.5%	50	9	4	3	0	0
	Insulin Regular (Human) Inj 100 U/ML	100	21	6	15	0	0
BPCS Demo Unit2	Total	300	71	17	29	3	0
	Infusions	150	21	5	6	2	8
	Bel's Morphine Sulfate Inj 2 MG/ML	25	11	4	4	1	2
	Continuous Titration	70	8	3	2	0	3
	TPN	55	11	2	4	2	3
	Non-Infusions	150	49	8	19	0	0

**FIG. 79**

**Near Miss Unit Summary by Med**

**BPCS Demo Unit**

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 80**

	Total Administrations	Total Wrong	Near Miss				Med Error
			# Wrong Drug	# Wrong Time	# Wrong Route	# Wrong Rate	
<b>Total</b>	450	102	24	48	3	20	7
<b>Infusions</b>	200	36	11	10	3	12	0
Multiple Vitamin Inj	95	11	1	3	2	5	0
Tapering	60	16	7	3	0	6	0
TPN	45	9	3	4	1	1	0
<b>Non-Infusions</b>	250	58	13	38	0	0	7
Acetaminophen 500	100	28	3	20	0	0	5
Hydrocortisone Cream 2.5%	50	9	4	3	0	0	2
Insulin Regular (Human) Inj 100 U/ML	100	21	6	15	0	0	0

**FIG. 81**

**Baxter Scan Errors**

QA Test Hospital

Group = Nurse - Hand Held (Hand Held)

Personnel: Andr, Andr

Nurse - CPOE (CPOE)  
 Nurse - Hand Held (Hand Held)  
 Nurse - Inpatient (Inpatient)  
 Nurse - Lifeline (Lifeline)

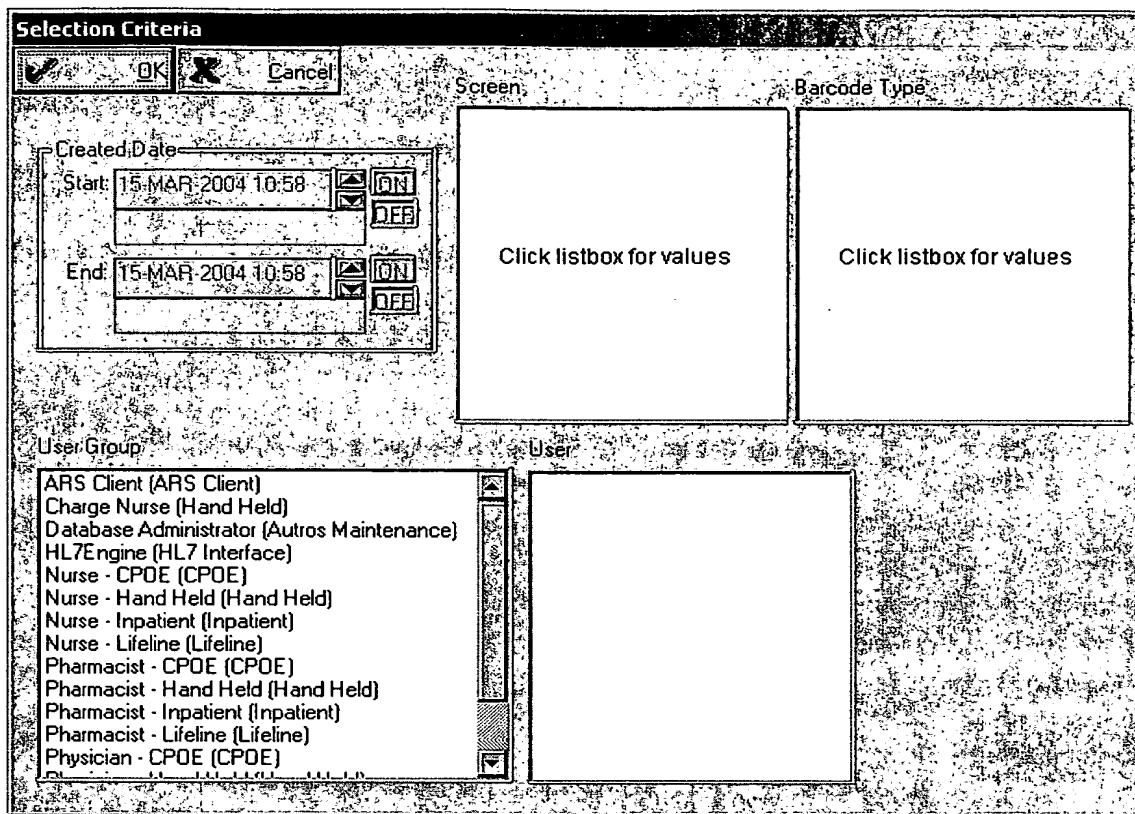
Time	System / Screen	Scan Error (Type/Error)	Expected	Actual
08-Nov-2003 (Thursday)				
15:37	Autos Hand Held /Handheld/eMar/EnterDrugQuantity.aspx	Scanned barcode is invalid or inactive.	102 Captopril Tab 50 MG CAPOTEN	106 Acetaminophen Soln 100 MG/ML ACETAMINOPHEN
24-Nov-2003 (Monday)				
13:31	Autos Hand Held /Handheld/Shift/ShiftSelectPatients.aspx	Scanned barcode is invalid or inactive.		q
28-Nov-2003 (Friday)				
15:33	Autos Hand Held /Handheld/MixOnFloor/MixOnFloorGetIt.aspx	Scanned barcode is invalid or inactive.	106 Acetaminophen Soln 100 MG/ML ACETAMINOPHEN	409 Cefazolin Sodium For Inj 10 GM LF CEFAZOLIN SODIUM
28-Nov-2003 (Friday)				
15:36	Autos Hand Held /Handheld/eMar/ScanIVBagForAdmin.aspx	Scanned barcode is invalid or inactive.	8800006940	880006940
15:39	Autos Hand Held /Handheld/eMar/ScanIVBagForAdmin.aspx	Scanned barcode is invalid or inactive.	8800006941	8800006941
15:41	Autos Hand Held /Handheld/StopInfusion/StoppedInfusion.aspx	Scanned barcode is invalid or inactive.	One of IV Bag IDs	8800006941
05-Jan-2004 (Monday)				
11:13	Autos Hand Held /Handheld/Shift/ShiftSelectPatients.aspx	Scanned barcode is invalid or inactive.		qa998
21-Jan-2004 (Wednesday)				
15:17	Autos Hand Held /Handheld/eMar/ScanIVBagForAdmin.aspx	Scanned barcode is invalid or inactive.	8800011408	8800011168
03-Feb-2004 (Tuesday)				
16:20	Autos Hand Held /Handheld/eMar/EnterDrugQuantity.aspx	Scanned barcode is invalid or inactive.	11 Alprazolam Tab 2 MG (BeI) ALPRAZOLAM (BeI)	102 Captopril Tab 50 MG CAPOTEN
16:20	Autos Hand Held /Handheld/eMar/EnterDrugQuantity.aspx	Scanned barcode is invalid or inactive.	11 Alprazolam Tab 2 MG (BeI)	9 ALPRAZOLAM (BeI)

Number of Errors: 10

March 15, 2004 11:31

Page 17 of 458

**FIG. 82**

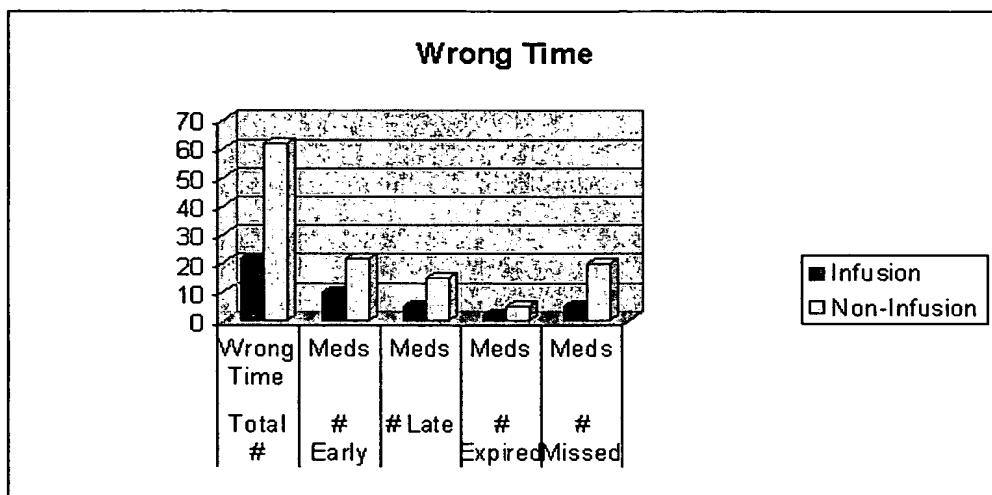


**FIG. 83**

### Near Miss Wrong Time Summary

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



Total Administrations: 546

**FIG. 84**

Total Administrations: 546

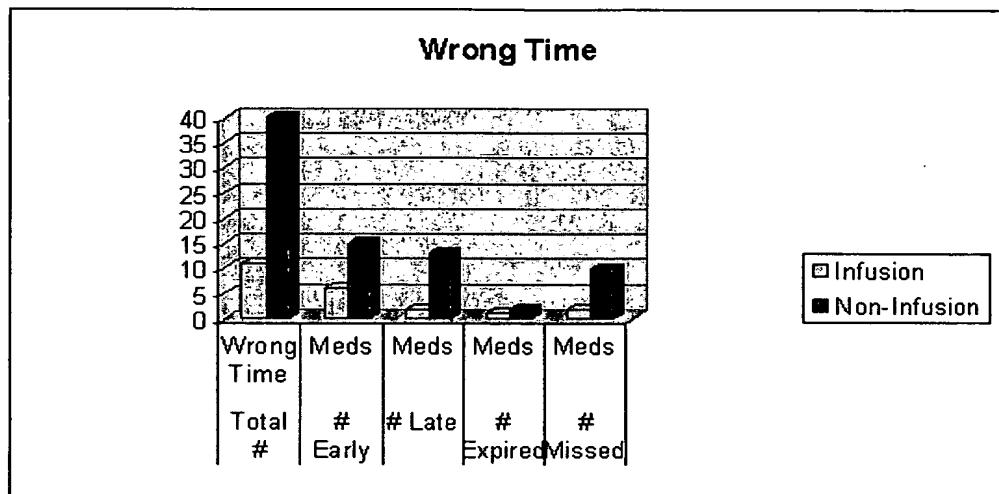
		Total # Wrong Time	# Early Meds	# Late Meds	# Expired Meds	# Missed Meds
All Units	Total	84	32	20	7	25
	Infusion	22	10	5	2	5
	Non-Infusion	62	22	15	5	20
BPCS Demo Unit	Total	51	21	15	3	12
	Infusion	11	6	2	1	2
	Non-Infusion	40	15	13	2	10
BPCS Demo Unit2	Total	33	11	5	4	13
	Infusion	11	4	3	1	3
	Non-Infusion	22	7	2	3	10

**FIG. 85**

### Near Miss Wrong Time Unit Summary

BCPS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



Total Administrations: 160

**FIG. 86**

Total Administrations: 160

	Total # Wrong Time	# Early Meds	# Late Meds	# Expired Meds	# Missed Meds
<b>Total</b>	51	21	15	3	12
Infusion	11	6	2	1	2
Non-Infusion	40	15	13	2	10

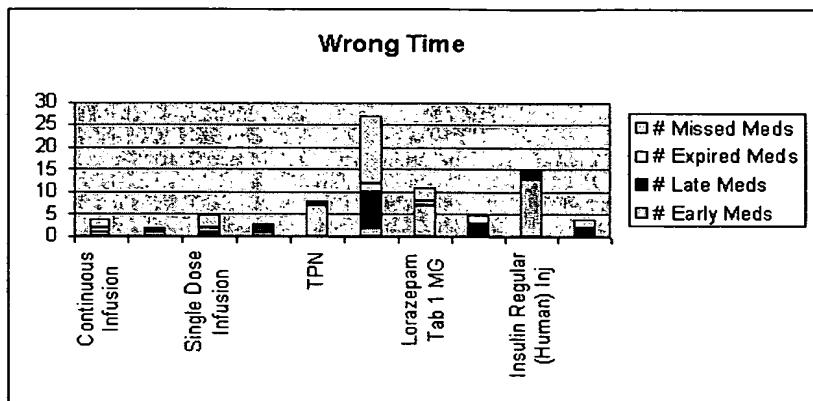
**FIG. 87**

**BEST AVAILABLE COPY**

### Wrong Time by Med

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



Total Administrations: 546

**FIG. 88**

Total Administrations: 546

	Total # Wrong Time	# Early Meds	# Late Meds	# Expired Meds	# Missed Meds
<b>All Units</b>	<b>84</b>	<b>32</b>	<b>20</b>	<b>7</b>	<b>25</b>
<b>Infusions</b>	<b>22</b>	<b>10</b>	<b>5</b>	<b>2</b>	<b>5</b>
Continuous Infusion	14	1	0	1	2
Continuous Titration	2	1	1	0	0
Single Dose Infusion	5	0	1	1	3
Tapering	3	1	2	0	0
TPN	8	7	1	0	0
<b>Non-Infusions</b>	<b>62</b>	<b>22</b>	<b>15</b>	<b>5</b>	<b>20</b>
Acetaminophen 500	27	2	8	2	15
Lorazepam Tab 1 MG	11	7	0	1	3
Hydrocortisone Cream 2.5%	5	0	3	2	0
Insulin Regular (Human) Inj 100 U/ML	15	13	2	0	0
XyloLiq	4	0	2	0	2
<b>BPCS Demo Unit</b>	<b>51</b>	<b>21</b>	<b>15</b>	<b>3</b>	<b>12</b>
<b>Infusions</b>	<b>11</b>	<b>6</b>	<b>2</b>	<b>1</b>	<b>2</b>
Continuous Infusion	4	1	0	1	2
Tapering	3	1	2	0	0
TPN	4	4	0	0	0
<b>Non-Infusions</b>	<b>40</b>	<b>15</b>	<b>13</b>	<b>2</b>	<b>10</b>
Acetaminophen 500	20	2	8	0	10
Hydrocortisone Cream 2.5%	5	0	3	2	0
Insulin Regular (Human) Inj 100 U/ML	15	13	2	0	0
<b>BPCS Demo Unit2</b>	<b>33</b>	<b>11</b>	<b>5</b>	<b>4</b>	<b>13</b>
<b>Infusions</b>	<b>11</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>3</b>
Continuous Titration	2	1	1	0	0
Single Dose Infusion	5	0	1	1	3
TPN	4	3	1	0	0
<b>Non-Infusions</b>	<b>22</b>	<b>7</b>	<b>2</b>	<b>3</b>	<b>10</b>
Acetaminophen 500	7	0	0	2	5
Lorazepam Tab 1 MG	11	7	0	1	3
XyloLiq	4	0	2	0	2

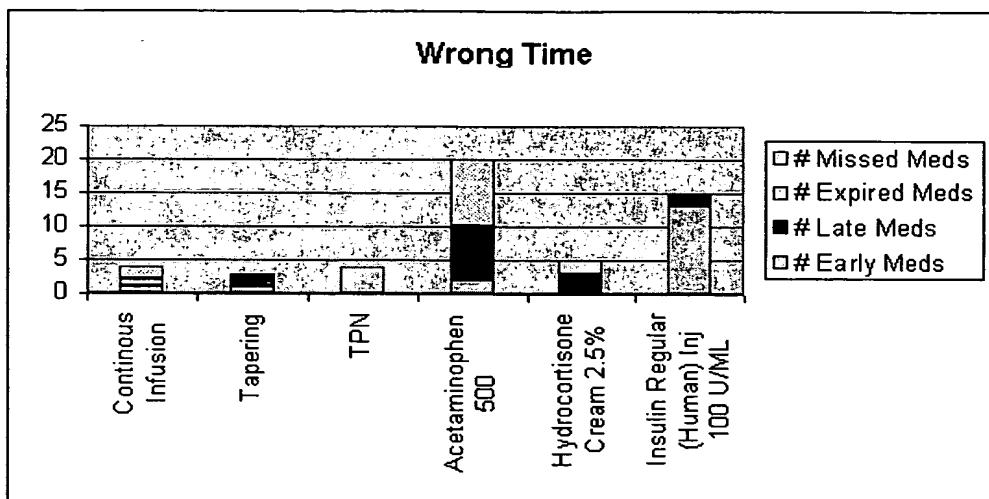
**FIG. 89**

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### Wrong Time by Med

BCPS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**Total Administrations: 160**

**FIG. 90**

**Total Administrations: 160**

	Total # Wrong Time	# Early Meds	# Late Meds	# Expired Meds	# Missed Meds
<b>Total</b>	<b>51</b>	<b>21</b>	<b>15</b>	<b>3</b>	<b>12</b>
<b>Infusions</b>	<b>11</b>	<b>6</b>	<b>2</b>	<b>1</b>	<b>2</b>
Continuous Infusion	4	1	0	1	2
Tapering	3	1	2	0	0
TPN	4	4	0	0	0
<b>Non-Infusions</b>	<b>40</b>	<b>15</b>	<b>13</b>	<b>2</b>	<b>10</b>
Acetaminophen 500	20	2	8	0	10
Hydrocortisone Cream 2.5%	5	0	3	2	0
Insulin Regular (Human) Inj 100 U/ML	15	13	2	0	0

**FIG. 91**

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**Wrong Time with Reason Code Report**

**BPCS Demo Unit**

Period of report from: 03-Mar-2004 09:00 to 04-Mar-2004 17:00

Reason	Patient	RX	Order	Admin Time	Admin Time	Nurse
<b>Early Medication Administrations</b>						
<b>Acetaminophen</b>						
As per MD	FTLOC1	1 CAP(s) Administered Acetaminophen Cap 500 MG 500 MG = 1 CAP Oral New	03-Mar-2004	03-Mar-2004 10:59	09:22:14	NURSEB
Other	ETLOC1	1 CAP(s) Administered Acetaminophen Cap 500 MG 500 MG = 1 CAP Oral New	04-Mar-2004	04-Mar-2004 13:05	14:15	CHNURSE
						<b>Total Early: 2</b>
<b>Late Medication Administrations</b>						
<b>Acetaminophen</b>						
Patient unavailable at scheduled time	pid04	1 CAP(s) Administered Acetaminophen Cap 500 MG 500 MG = 1 CAP Oral New	03-Mar-2004	03-Mar-2004 10:59	11:22:14	NURSEA
Other	L2001	1 CAP(s) Administered Acetaminophen Cap 500 MG 500 MG = 1 CAP Oral New	04-Mar-2004	04-Mar-2004 15:35	14:15	CHNURSE
						<b>Total Late: 3</b>
<b>Multiple Vitamin Inj</b>						
Patient unavailable at scheduled time	FTLOC1	Continuous Infusion *Multiple Vitamin Inj** 20 ML WR13_Water For IV Injection 2 L = 2000 ML Route: Intravenous Flow Rate: 250 ML/H Estimated Administration Period: 8 Hours	03-Mar-2004	03-Mar-2004 10:59	11:22:14	NURSEB
						<b>Total Expired: 1</b>

**FIG. 92**

**BEST AVAILABLE COPY**

**Missed Medication Administrations**

**Acetaminophen**

newp2	1 CAP(s) Administered Acetaminophen Cap 500 MG 500 MG = 1 CAP Oral New	03-Mar-2004 09:45
FTLOC1	1 CAP(s) Administered Acetaminophen Cap 500 MG 500 MG = 1 CAP Oral New	03-Mar-2004 13:00
LZ001	1 CAP(s) Administered Acetaminophen Cap 500 MG 500 MG = 1 CAP Oral New	03-Mar-2004 17:45

**Multiple Vitamin Inj**

ETLOC1	Continuous Infusion Simp Continuous Infusion *Multiple Vitamin Inj** 100 ML Route: Intravenous Flow Rate: 50 ML/H Line: Lne3 Site: tail Estimated Administration Period: 2 Hours	03-Mar-2004 11:00
ETLOC1	Continuous Infusion Simp Continuous Infusion *Multiple Vitamin Inj** 100 ML Route: Intravenous Flow Rate: 50 ML/H Line: Lne3 Site: tail Estimated Administration Period: 2 Hours	03-Mar-2004 13:00

Total Missed: 5

Report ID:12345 Requested by J.Brushey Report printed on Mar 05,2004 14:30:04

**FIG. 93**

**BEST AVAILABLE COPY**

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## Infusion Flow Rate History

Run Period: from 8/14/2003 12:00:00AM to 3/1/2004 12:00:00AM

Page 1 of 1

	Occurrence Date	Pump Mode	Pump Status	Rate(mL/H)
<b>Unit: AUTROS DEMO UNIT</b>				
Patient Name:	AUTROS, Ptl			
Nurse:	Tech, Ctr			
RX#:	197780	Continuous Infusion		
		*Multiple Vitamin Inj**		
		10 ML		
		Route: Injection	Flow Rate: 10 ML/H	
		Estimated Administration Period:	1 Hour	
751697	1/14/2004 1:10:58PM	Primary	Stopped	50.00
	1/14/2004 2:50:49PM	Primary	Stopped	0.00
	1/14/2004 2:51:04PM	Primary	Stopped	20.00
<b>RX#:</b> 199997 <b>Continuous Infusion</b> *Multiple Vitamin Inj** 9999 ML Route: Injection Flow Rate: 1200 ML/H Estimated Administration Period: 5 Hours				
755328	1/23/2004 2:08:40PM	Primarv	Standby mode	100.00
	1/23/2004 2:08:49PM	Primarv	Stopped	100.00
	1/23/2004 2:08:58PM	Primarv	Stopped	52.00
	1/23/2004 2:11:36PM	Primarv	Standby mode	52.00
	1/23/2004 2:32:30PM	Primarv	Stopped	52.00
	1/23/2004 2:32:51PM	Primarv	Stopped	555.00
	1/23/2004 2:34:06PM	Primarv	Standby mode	555.00

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 Rev  
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Page 1 of 1

**FIG. 94**

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**Colleague Infusion Rate and Mode Comparison Summary**

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

		Total	Rate				Mode
			# Matches	# Resolved Mismatches	# Accepted Mismatches	# No Comparisons	
<b>Total Infusions for All Units</b>	Total	114	62	20	20	32	28
	Primary	62	35	13	14	13	11
	Piggyback	52	27	7	6	19	17
<b>BPCS Demo Unit Total Infusions</b>	Total	55	30	12	7	18	16
	Primary	35	20	7	5	10	4
	Piggyback	20	10	5	2	8	12
<b>BPCS Demo Unit2 Total Infusions</b>	Total	59	32	8	13	14	12
	Primary	27	15	6	9	3	7
	Piggyback	32	17	2	4	11	5

**FIG. 95**

**Colleague Infusion Rate and Mode Comparison Unit Summary**

**BPCS Demo Unit**

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

		Total	Rate				Mode
			# Matches	# Resolved Mismatches	# Accepted Mismatches	# No Comparisons	
<b>Total Infusions</b>		55	30	12	7	18	16
Primary		35	20	7	5	10	4
Piggyback		20	10	5	2	8	12

**FIG. 96**

**Infusion Flow Rate Comparison**

Run Period: from 8/24/2003 12:00:00AM to 3/11/2004 12:00:00AM

Page 1 of 1

		Total	1.No Match	2.Match	3.No Comparison	
Total		35	5	2	28	
<b>*AUTROS DEMO UNIT*</b>	Unit	35	5	2	28	
	Primary	35	5	2	28	

**FIG. 97**

**BEST AVAILABLE COPY**

**Colleague Infusion Rate Comparison Summary by Med**

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

	Total Infusions	Rate			
		# Matches	# Resolved Mismatches	# Accepted Mismatches	# No Comparisons
All Units	<b>Total</b> 114	62	20	20	32
	Bel's Morphine Sulfate Inj 2 MG/ML	14	7	1	3
	Continuous Titration	15	4	3	2
	Multi Vitamin Inj	17	6	4	4
	Tapering	42	30	7	3
	TPN	26	15	5	8
BPCS Demo Unit	<b>Total</b> 55	30	12	7	18
	Bel's Morphine Sulfate Inj 2 MG/ML	14	7	1	3
	Tapering	42	30	7	3
	TPN	16	10	2	4
BPCS Demo Unit2	<b>Total</b> 59	32	8	13	14
	Continuous Titration	15	4	3	2
	Multi Vitamin Inj	17	6	4	4
	TPN	10	5	3	4

**FIG. 98**

**Colleague Infusion Rate Comparison Unit Summary by Med**

BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

	Total Infusions	Rate			
		# Matches	# Resolved Mismatches	# Accepted Mismatches	# No Comparisons
<b>Total</b>	55	30	12	7	18
Bel's Morphine Sulfate Inj 2 MG/ML	14	7	1	3	4
Tapering	42	30	7	3	9
TPN	16	10	2	4	2

**FIG. 99**

**BEST AVAILABLE COPY**

**Infusion Flow Rate Comparison**

Run Period: from 8/24/2003 12:00:00AM to 3/11/2004 12:00:00AM

Page 1 of

	Total	1.No Match	2.Match	3.No Comparison
<b>Total</b>	<b>35</b>	<b>5</b>	<b>2</b>	<b>28</b>
<b>*AUTROS DEMO UNIT*</b>				
Unit	35	5	2	28
Primary	35	5	2	28

	Total	1.No Match	2.Match	3.No Comparison
<b>Total</b>	<b>35</b>	<b>5</b>	<b>2</b>	<b>28</b>
<b>*AUTROS DEMO UNIT*</b>				
Unit Total:	35	5	2	28
Continuous Infusion *Multiple Vitamin Inj** 10 ML Route: Injection Flow	Total 15 Primary 15	5 5	1 1	9 9
Continuous Infusion *Multiple Vitamin Inj** 10 ML Route: Intramuscular	Total 3 Primary 3	0 0	0 0	3 3
Continuous Infusion *Multiple Vitamin Inj** 9999 ML Route: Injection Flow	Total 7 Primary 7	0 0	0 0	7 7
Continuous Infusion Morphine Sulfate Inj 15	Total 5 Primary 5	0 0	1 1	4 4
Continuous Infusion Morphine Sulfate Inj 15 MG/ML 45 MG = 9 ML	Total 5 Primary 5	0 0	1 1	4 4
Continuous Infusion Morphine Sulfate Inj 15 MG/ML * short 10 GM = 0.667 ML	Total 3 Primary 3	0 0	0 0	2 2
Continuous Infusion Morphine Sulfate Inj 15 MG/ML * short 10 GM = 0.667 ML	Total 3 Primary 3	0 0	0 0	3 3

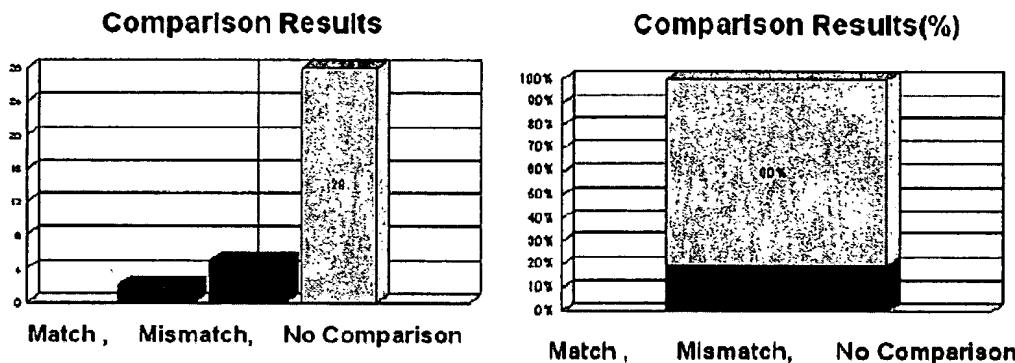
**FIG. 100**

**BEST AVAILABLE COPY**

**Infusion Flow Rate Comparison**

Run Period: from 8/14/2003 12:00:00AM to 3/1/2004 12:00:00AM

Page 1 of 4



**FIG. 101**

Pump Mode	Rx Rate	Pump Rate	Comparison Result	Date/Time
<b>Unit: *AUTROS DEMO UNIT*</b>				
Nurse: Nurse, Mary				
Patient: Palm, Father				
RX: 206180	Continuous Infusion			
	*Multiple Vitamin Inj**			
	10 ML			
	Route: Intramuscular	Flow Rate: 10 ML/H		
	Estimated Administration Period: 1 Hour			
781396	Primary	555.00	No Comparison	2/10/2004 10:57:23AM
RX: 206180	Continuous Infusion			
	*Multiple Vitamin Inj**			
	10 ML			
	Route: Intramuscular	Flow Rate: 10 ML/H		
	Estimated Administration Period: 1 Hour			
781396	Primary	555.00	No Comparison	2/10/2004 11:41:02AM
RX: 206180	Continuous Infusion			
	*Multiple Vitamin Inj**			
	10 ML			
	Route: Intramuscular	Flow Rate: 10 ML/H		
	Estimated Administration Period: 1 Hour			
781397	Primary	555.00	No Comparison	2/10/2004 11:58:06AM
Patient: AUTROS, Pt1				
RX: 205182	Continuous Infusion			
	Morphine Sulfate Inj 15 MG/ML * short			
	10 GM = 0.667 ML			
	To be Administered Over 10 Minutes			
	Route: Injection	Estimated Flow Rate: 4 ML/H		
776327	Primary	555.00	No Comparison	2/6/2004 10:55:19AM
776327	Primary	555.00	No Comparison	2/6/2004 10:55:22AM
Nurse: Tech, Cori				
Patient: AUTROS, Pt1				

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 Rev  
 Ref: SR008

Printed: 3/1/2004 11:45:12AM

Page 1 of 4

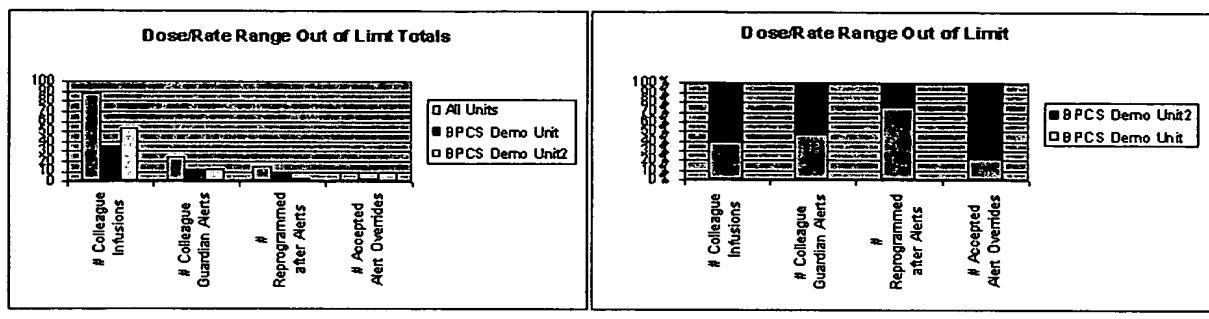
**FIG. 102**

**BEST AVAILABLE COPY**

**Colleague Guardian Dose/Rate Range Out of Limit Summary**

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 103**

	# Colleague Infusions	# Colleague Guardian Alerts	# Reprogrammed after Alerts	# Accepted Alert Overrides
All Units	189	25	15	10
BPCS Demo Unit	35	12	9	3
BPCS Demo Unit2	54	13	3	10

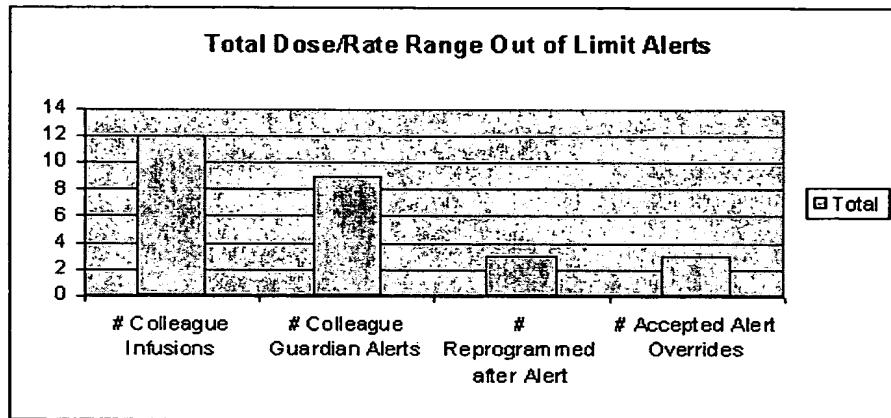
**FIG. 104**

**BEST AVAILABLE COPY**

### **Colleague Guardian Dose/Rate Range Out of Limit Unit Summary**

**BPCS Demo Unit**

Run Period: **From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM**



**FIG. 105**

	<b># Colleague Infusions</b>	<b># Colleague Guardian Alerts</b>	<b># Reprogrammed after Alert</b>	<b># Accepted Alert Overrides</b>
<b>Total</b>	12	9	3	3

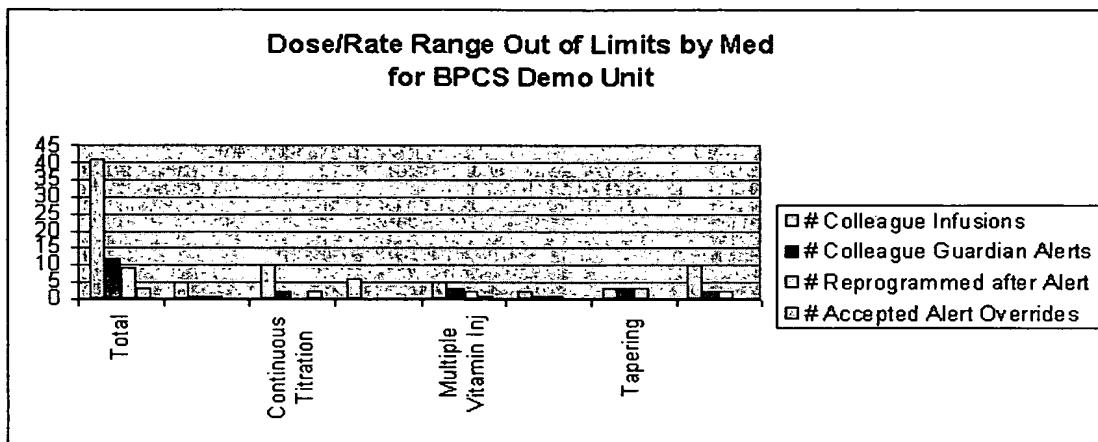
**FIG. 106**

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**Colleague Guardian Dose/Rate Range Out of Limit Unit Summary**

**BPCS Demo Unit**

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 107**

Pharmacy Label	Colleague Guardian Label	# Colleague Infusions	# Colleague Guardian Alerts	# Reprogrammed after Alert	# Accepted Alert Overrides
Total		41	12	9	3
Bel's Morphine Sulfate Inj 2 MG/ML	MORPHINE	5	1	1	0
Continuous Titration	DOBUTAMN	10	2	0	2
Dopamine HCl Inj 40MG/ML		6	0	0	0
Multiple Vitamin Inj	ANTIBIOT	5	3	2	1
Tapering	DOPAMINE	2	1	1	0
Tapering	FLUORUOR	3	3	3	0
TPN	TPN	10	2	2	0

**FIG. 108**

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### Colleague Alarms/Alerts Summary

#### All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

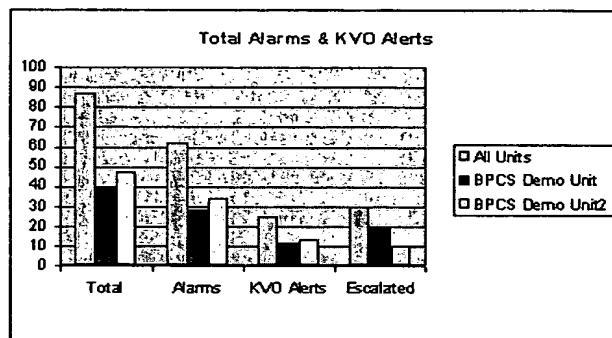


FIG. 109

	Total Infusions	Alarms/Alerts Total	# Alarms	# KVO Alerts	# Escalated	*Avg time to resolve (mm:ss)
All Units	60	87	62	25	30	2:23
BPCS Demo Unit	30	40	28	12	20	2:15
BPCS Demo Unit2	20	47	34	13	10	2:30

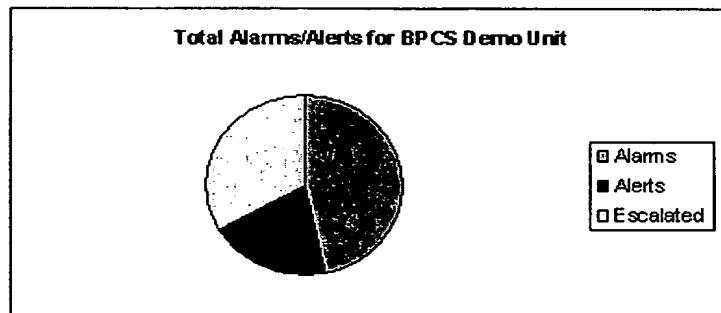
FIG. 110

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### Alarms/Alerts Summary

BPCS Demo Unit

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 111**

Total	# Alarms	# KVO Alerts	# Escalated	*Avg time to resolve (mm:ss)
40	28	12	20	2:15

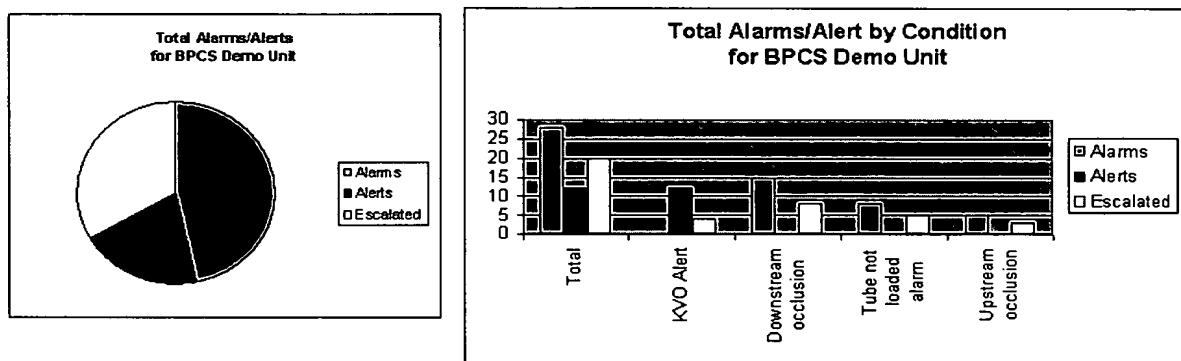
**FIG. 112**

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**Colleague Alarms/Alerts Summary by Alarm Condition**

**BPCS Demo Unit**

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**Total Infusions: 30**

**FIG. 113A**

**FIG. 113B**

**Total Infusions: 30**

Alarm Condition	Total Alarms/Alerts	# Alarms	# KVO Alerts	# Escalated	Avg time to resolve (mm:ss)
Total	40	28	12	20	2:15
KVO Alert	12	0	12	4	0:45
Downstream occlusion	15	15	0	8	3:45
Tube not loaded alarm	8	8	0	5	1:10
Upstream occlusion	5	5	0	3	1:35

**FIG. 114**

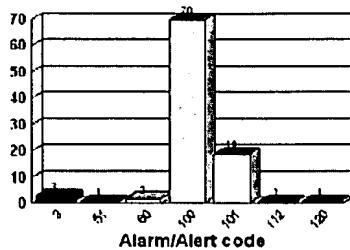
**BEST AVAILABLE COPY**

**History of pump alarms, KVO alerts, and resolutions (by alarm/ KVO alert code)**

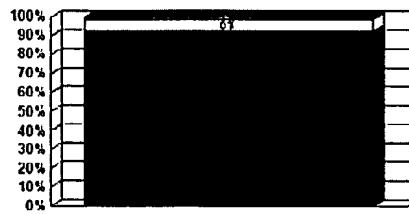
Run Period: from 8/14/2003 12:00:00AM to 3/1/2004 12:00:00AM

Page 1 of 8

**Alarms/Alerts by code**



**Alarms/Alerts by device(%)**



**FIG. 115A**

**FIG. 115B**

**Code** **Alarm Description**

3	Channel Stopped Alert
51	Tube Not Loaded Alarm
60	Downstream Occlusion Alarm
100	PDA Loss of Communication
101	Unicorn Loss of Communication
112	Unicorn is initiating power-down
120	Pump Communication Lost Alarm

**FIG. 116**

Alarm, KVO Alert 3 Channel Stopped Alert						
Unit: *AUTROS DEMO UNIT*						
Patient Name: AUTROS, Pt1						
Nurse: Nurse, Mary						
RX: Intermittent Infusion Morphine Sulfate Inj 15 MG/ML 15 MC = 1 ML Route: Injection Flow Rate: 1.5 ML/H Estimated Administration Period: 40 Minutes Every 1 Hour						
1	A00000085	Channel	Primary	9/26/2003		
1	A00000047	Channel	Primary	1/23/2004 2:32:33PM		1/23/2004 2:32:50PM
Total for Alarm, KVO Alert # 3 Channel Stopped Alert 3						
Alarm, KVO Alert 51 Tube Not Loaded Alarm						
Unit: *AUTROS DEMO UNIT*						
Patient Name: AUTROS, Pt1						
Nurse: Tech, Cori						

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Ed. 5E.002b

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Page 1 of 8

**FIG. 117**

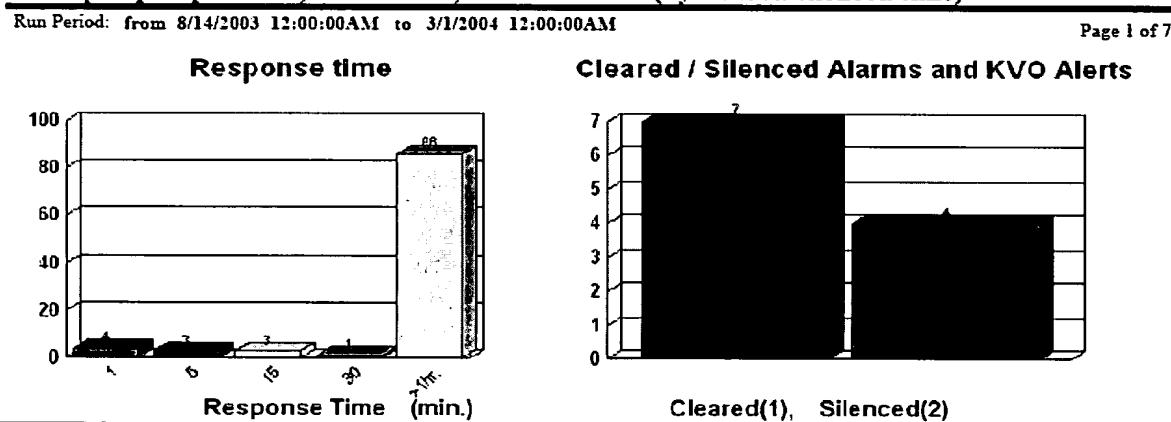
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**History of Alarms/Alerts and Resolutions(by Alarm/Alert)**

Run Period: from 8/14/2003 12:00:00AM to 3/1/2004 12:00:00AM						Page 2 of 8
Exc.Level	Source	Device	Mode	Occurrence Time	Cleared Time	Silenced Time
		RX:	Continuous Infusion			
			*Multiple Vitamin Inj**			
			9999 ML			
			Route: Injection	Flow Rate: 1200 ML/H		
				Estimated Administration Period: 5 Hours		
0	A00000047	Channel	Primary	1/23/2004 2:32:51PM	1/23/2004 2:32:52PM	
Total for Alarm_KVO Alert # 51 Tube Not Loaded Alarm						

**FIG. 118**

**History of pump alarms, KVO alerts, and resolutions(by cleared/silenced time)**



**FIG. 119A**

**FIG. 119B**

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Code	Alarm Description
3	Channel Stopped Alert
51	Tube Not Loaded Alarm
60	Downstream Occlusion Alarm
100	PDA Loss of Communication
101	Unicorn Loss of Communication
112	Unicorn is initiating power-down
120	Pump Communication Lost Alarm

**FIG. 120**

Esc Level	Source	Device	Mode	Occurrence	Cleared	Silenced
<b>Clearance/Silenced time up to: 1(min.)</b>						
<b>Unit: AUTROS DEMO UNIT</b>						
<b>Patient Name: AUTROS, Pt1</b>						
<b>Nurse: Nurse, Mary</b>						
<b>RX: Intermittent Infusion</b> Morphine Sulfate Inj 15 MG/ML 15 MG = 1ML <b>Route: Injection, Flow Rate: 1.5 ML/H</b> <b>Estimated Administration Period: 40 Minutes</b> <b>Every 1 Hour</b>						
0	A00000085	Channel	Primary	9/26/2003 1:09:44PM	9/26/2003 1:09:50PM	9/26/2003 1:09:50PM
1	A00000085	Channel	Primary	9/26/2003 12:17:51PM	9/26/2003 12:17:55PM	9/26/2003 1:09:50PM
<b>RX: Continuous Infusion</b> Multiple Vitamin Inj 1L 9999 ML <b>Route: Injection Flow Rate: 1200 ML/H</b> <b>Estimated Administration Period: 5 Hours</b>						
0	A00000047	Channel	Primary	1/23/2004 2:32:51PM	1/23/2004 2:32:52PM	1/23/2004 2:32:50PM
1	A00000047	Channel	Primary	1/23/2004 2:32:33PM		1/23/2004 2:32:50PM
<b>Total Clearance/Silenced time up to: 1(min.)</b>						
<b>Clearance/Silenced time up to: 5(min.)</b>						
<b>Unit: AUTROS DEMO UNIT</b>						
<b>Patient Name: AUTROS, Pt1</b>						
<b>Nurse: Nurse, Mary</b>						
<b>RX:</b> UnicomPE102      Unicom      2/12/2004 12:46:04PM      2/12/2004 12:48:04PM UnicomPE103      Unicom      2/12/2004 12:46:12PM      2/12/2004 12:50:12PM UnicomPE216      Unicom      2/12/2004 12:46:21PM      2/12/2004 12:50:21PM						
<b>Total Clearance/Silenced time up to: 5(min.)</b>						

**FIG. 121**

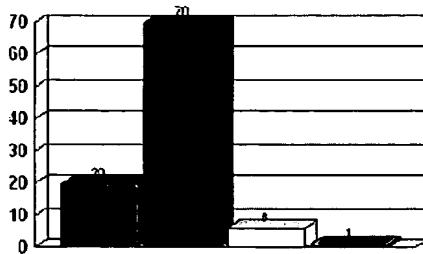
**BEST AVAILABLE COPY**

**History of pump alarms, KVO alerts, and resolutions(by unit)**

Run Period: from 8/14/2003 12:00:00AM to 3/1/2004 12:00:00AM

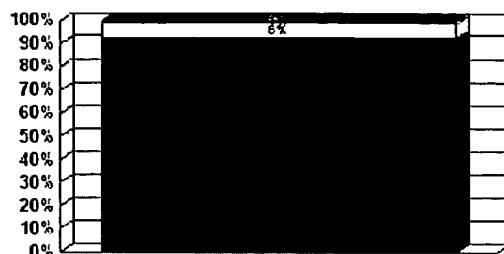
Page 1 of 5

**Alarms/Alerts by device**



Unicorn(1), PDA(2), Channel(3), Pump(4)

**Alarms/Alerts by device(%)**



Unicorn(1), PDA(2), Channel(3), Pump(4)

**FIG. 122A**

**FIG. 122B**

Esc.Level	Source	Device	Mode	Occurrence Time	Cleared Time	Silenced Time
<b>Unit: *AUTROS DEMO UNIT</b>						
Patient Name: AUTROS, Pt1						
Nurse: Nurse, Mary						
	RX: Intermittent Infusion					
	Morphine Sulfate Inj 15 MG/ML					
	15 MG = 1 ML					
	Route: Injection Flow Rate: 1.5 ML/H					
	Estimated Administration Period: 40 Minutes					
	Every 1 Hour					
Alarm/Alert # 60	Downstream Occlusion Alarm					
0	A00000085	Channel	Primary	9/26/2003 1:09:44PM		9/26/2003 1:09:50PM
Alarm/Alert # 3	Channel Stopped Alert					
1	A00000085	Channel	Primary	9/26/2003		
Alarm/Alert # 60	Downstream Occlusion Alarm					
1	A00000085	Channel	Primary	9/26/2003 12:17:51PM	9/26/2003 12:17:55PM	
	RX: Continuous Infusion					
	*Multiple Vitamin Inj**					
	9999 ML					
	Route: Injection Flow Rate: 1200 ML/H					
	Estimated Administration Period: 5 Hours					
Alarm/Alert # 51	Tube Not Loaded Alarm					
0	A00000047	Channel	Primary	1/23/2004 2:32:51PM	1/23/2004 2:32:52PM	
Alarm/Alert # 3	Channel Stopped Alert					
1	A00000047	Channel	Primary	1/23/2004 2:33:48PM		
Alarm/Alert # 3	Channel Stopped Alert					
1	A00000047	Channel	Primary	1/23/2004 2:32:33PM		1/23/2004 2:32:50PM
<b>Unit:</b>						
Patient Name:						
Nurse:						
RX:						
Alarm/Alert # 101	Unicorn Loss of Communication					
1	UNICORN1	Unicorn		8/28/2003		
Alarm/Alert # 101	Unicorn Loss of Communication					
1	Un	Unicorn		8/29/2003		
Alarm/Alert # 101	Unicorn Loss of Communication					
1	Unicorn1	Unicorn		2/12/2004 12:45:36PM		2/12/2004 12:50:36PM
Alarm/Alert # 101	Unicorn Loss of Communication					
1	Unicorn1	Unicorn		2/12/2004 12:45:36PM		

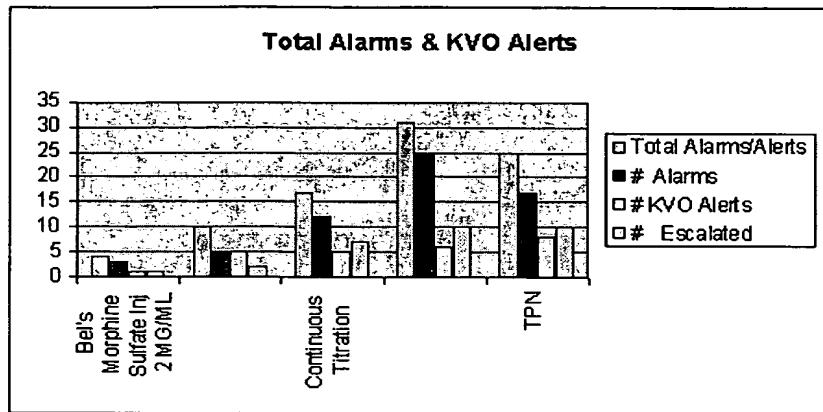
**FIG. 123**

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**Colleague Alarms/Alerts Summary by Med**

All Units

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM



**FIG. 124**

	Total Infusions	Total Alarms/Alerts	# Alarms	# KVO Alerts	# Escalated	Avg time to resolve (m:ss)
All Units	Total	60	67	62	25	30:22
	Bels Morphine Sulfate Inj 2 MG/ML	3	4	3	1	1:15
	Multiple Vitamin Inj	10	10	5	5	2:30
	Continuous Titration	12	17	12	5	1:50
	Tapering	10	19	25	6	2:46
	TPN	15	25	17	8	2:13
BPCS Demo Unit	Total	30	40	28	12	4:15
	Bels Morphine Sulfate Inj 2 MG/ML	3	4	3	1	1:15
	Multiple Vitamin Inj	7	4	1	3	1:20
	Continuous Titration	10	9	7	2	2:46
	Tapering	5	16	12	4	1:30
	TPN	5	7	5	2	1:10
BPCS Demo Unit2	Total	20	47	34	13	2:30
	Multiple Vitamin Inj	3	6	4	2	3:10
	Continuous Titration	2	8	5	3	1:12
	Tapering	5	15	13	2	2:15
	TPN	10	18	12	6	1:30

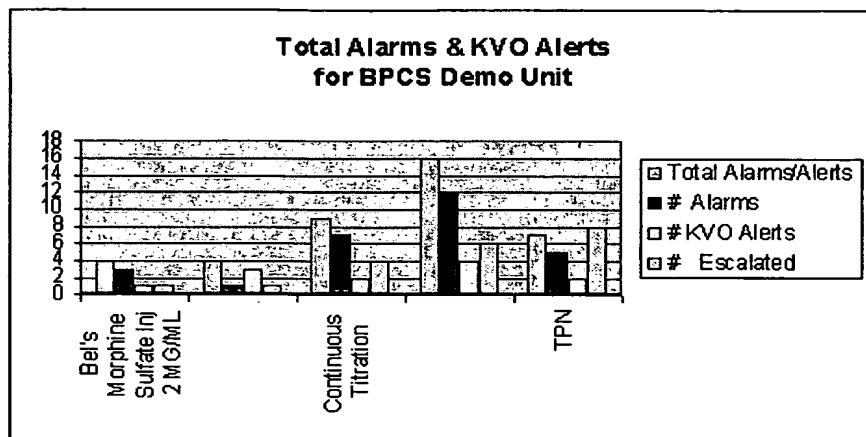
**FIG. 125**

**BEST AVAILABLE COPY**

**Colleague Alarms/Alerts Summary by Med**

**BPCS Demo Unit**

Run Period: From 3/1/2004 12:00:00AM to 3/4/2004 12:00:00AM

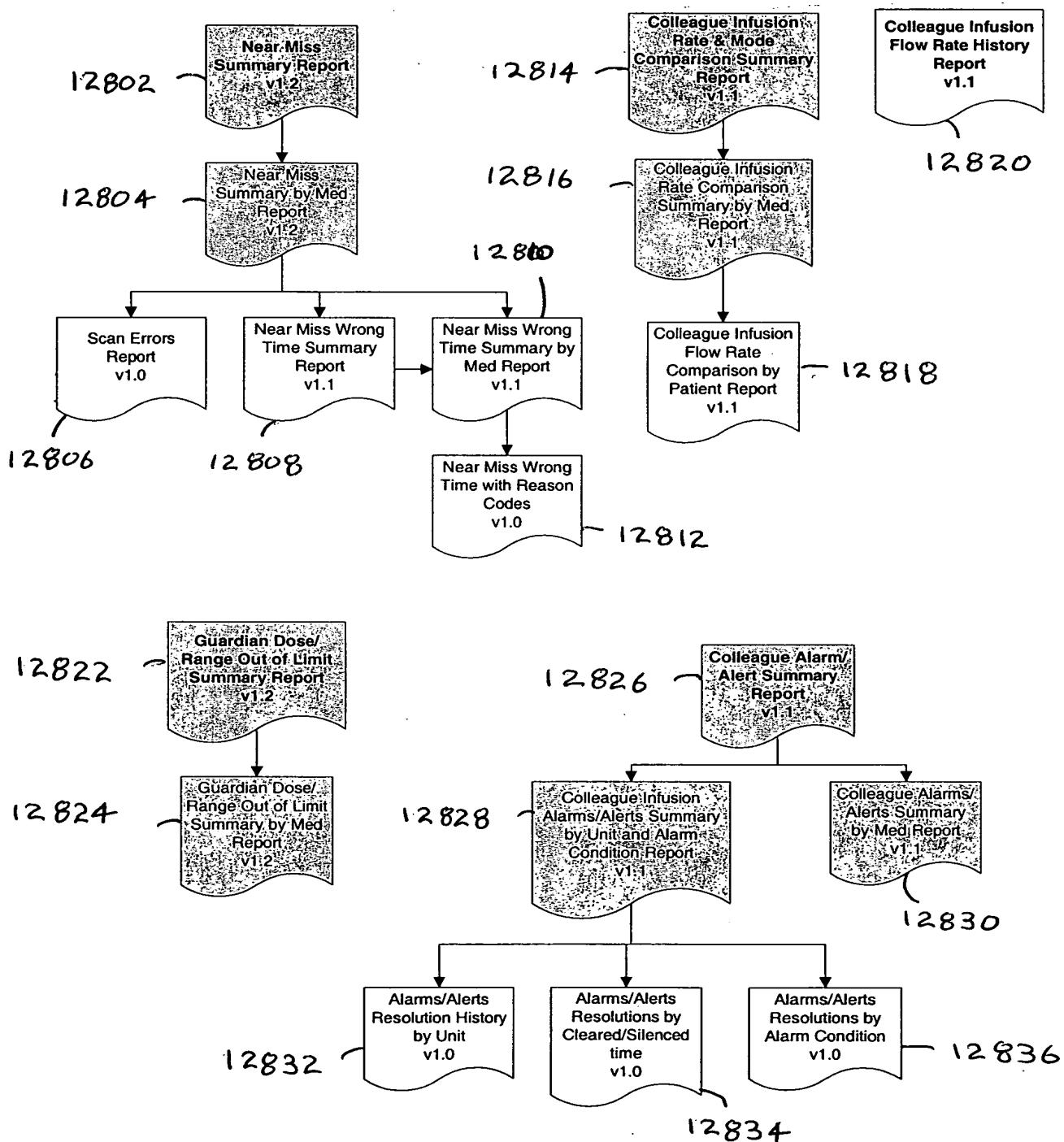


**FIG. 126**

Total Infusions	Total Alarms/Alerts	# Alarms	# KVO Alerts	# Escalated	Avg time to resolve (mm:ss)
Total	30	40	28	12	20
Bels Morphine Sulfate Inj 2 MG/ML	3	4	3	1	1:15
Multiple Vitamin Inj	7	4	1	3	1:20
Continuous Titration	10	9	7	2	2:45
Tapering	5	16	12	4	1:30
TPN	5	7	5	2	1:10

**FIG. 127**

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**FIG. 128**

**BEST AVAILABLE COPY**